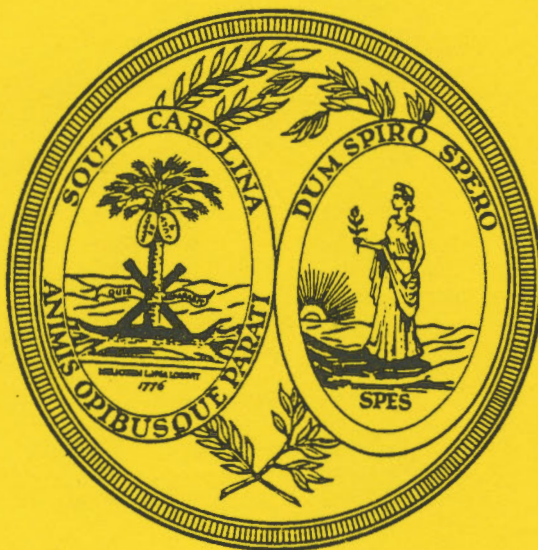


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# **SOUTH CAROLINA FORESTRY COMMISSION**



## **ANNUAL REPORT 1995-1996**

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**STATE DOCUMENTS**

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## STATE COMMISSION OF FORESTRY

### Members of the Commission:

Lawrence J. Bloomer, Chairman, Easley  
G. Edward Muckenfuss, Vice Chairman, Summerville  
Boris Hurlbutt, Walterboro  
Joe P. Simpson, Lancaster  
George E. Callaway, Manning  
Joel R. Thrift, Westminster  
Charles E. Williams, Georgetown  
Sara Lee Simons, Florence  
Dr. Constantine Curris, Clemson University, Clemson

### Administration

J. Hugh Ryan, State Forester and Secretary to the Commission  
H. Gilbert Brown, Deputy State Forester  
Dean Carson, Technical Assistant to the State Forester  
Judy J. Weston, Executive Assistant to the State Forester  
Wray E. Freeman, Division Director, Field Operations Support  
Joe M. Richbourg, Division Director, Administration



## MISSION

The mission of the South Carolina Forestry Commission is to protect, promote, enhance, and nurture the forest lands of South Carolina in a manner consistent with achieving the greatest good for its citizens.

The Commission will utilize Total Quality Management concepts in meeting its responsibilities.

Responsibilities extend to all forest lands, both rural and urban, and to all associated forest values and amenities including, but not limited to, timber, wildlife, water quality, air quality, soil protection, recreation, and aesthetics.

The Forestry Commission shall have general and specific responsibilities for the promulgation and enforcement of laws and regulations related to protection of the forest and its associated values.

The Commission shall be responsible for promoting and developing the appropriate technologies to accomplish its objectives, and for the development and promulgation of Best Management Practice Guidelines for South Carolina's forest land.



# **FIELD OPERATIONS SUPPORT**

The Field Operations Support Division provides operational and technical staff direction to the Forestry Commission field organization in each of the major program areas of forest management, nurseries and tree improvement, forest insects and diseases, forest fire protection, and environmental management. Additionally, it provides oversight to the equipment and communication needs of the agency including operations of the central shop.

## **FOREST MANAGEMENT**

The Forest Management Section assists South Carolina citizens with management and development of the forest resources of the state. Programs include Woodland Management Assistance, Reforestation Assistance, Forestry Services, Forest Products Utilization and Marketing Assistance, Resource Conservation and Development, Urban Forestry, and Watersheds. These programs assist owners in growing more timber, aid industries in more efficient utilization of the timber resource, and foster conservation and multiple use of the forest resource.

There are 12.4 million acres of commercial forest land in South Carolina. According to the 1993 U.S. Forest Service Survey, 72% of the land is owned by farmers and miscellaneous private owners. Forest industry owns approximately 19% with 9% in public ownership.

The Forest Management programs are designed to assist the non-industrial private landowner with multiple use forest management.

The Forest Management Section also has oversight responsibilities for the management of Sand Hills, Cassatt, and Manchester State Forests. Technical assistance is also provided to other state agency lands upon request.

### **Forest Management Assistance**

Professional foresters from the Forestry Commission provide forest management advice and assistance to landowners. The land is examined and a written forest management plan is prepared. Recommendations for management may include such silviculture practices as forest protection, reforestation, harvesting, prescribed burning, wildlife habitat improvement, and recreation. This year 3,272 management plans were prepared for 210,163 acres.

Where practical, the landowner is referred to consulting or industrial foresters to assist in carrying out management recommendations. This year 576 cases were referred to consulting foresters and 527 to industrial foresters.

### ***Forest Renewal Program (FRP)***

In 1982 the program was funded for the first time by a \$100,000 state appropriation. This permitted an assessment of \$400,000 from forest industry, and created a \$500,000 Forest Renewal Fund.

The program was funded at the same level for 1995-96.

### ***Forestry Incentive Program (FIP) - Federal***

Since 1974, \$21,321,319 have been allocated to South Carolina landowners under FIP.

### ***Agricultural Conservation Program (ACP) - Federal***

Agricultural Conservation Program funds are also available to landowners for reforestation.

### ***Conservation Reserve Program (CRP) - Federal***

The Program began with crop year 1986 and was renewed with the passage of the 1990 Farm Bill. Thirteen signups have been held with 224,047 acres approved for trees. This year 793 acres were planted.

### ***Hurricane Hugo Reforestation Project***

The Hugo Incentive Program (HIP) was established and funded with \$6.0 million federal dollars (\$3.0 million initial funding plus \$3.0 million more in Spring 1992.) HIP is unique in that federal monies are being administered and allocated by a state agency. Further, the SCFC is using the Dire Emergency Supplemental Appropriations Act funding to operate the cost share program. Therefore, all of the \$6 million is available to assist non-industrial private forest landowners. The entire \$6 million is now spent or designated for applicants.

## **STATEWIDE ACCOMPLISHMENTS ALL COST SHARE PROGRAMS REFORESTATION AND TIMBER STAND IMPROVEMENT**

<b>Program</b>	<b>No. of Landowners</b>	<b>Acres Planted</b>	<b>Natural Regeneration</b>	<b>TSI Acres</b>	<b>Cost Share Payments</b>
FRP	117	4,135	25	672	\$381,390
FIP	419	6,563	50	1,392	\$912,145
ACP	290	5,713	0	972	\$359,772
CRP	26	793	0	0	\$22,753
HIP	47	3,301	44	1,894	\$459,909
SIP	82	2,620	0	766	\$213,918
<b>Total</b>	<b>981</b>	<b>23,125</b>	<b>119</b>	<b>5,696</b>	<b>\$2,349,887</b>

### **Seedling Survival**

A total of 431 survival checks were made using a row count or tenth acre plot method for determining survival. A weighted analysis involving all survival checks was used to determine the statewide survival of 75%.

<b>Region</b>	<b>Planting Jobs Inspected</b>	<b>Weighted Percent Survival</b>
Coastal	150	73%
Pee Dee	119	81%
Piedmont	162	72%
<b>Total</b>	<b>431</b>	<b>75%</b>

# FOREST MANAGEMENT ASSISTANCE 1995-96

County	Non Cost-Share		Cost-Share		Forest Stewardship	
	Exams	Acres	Exams	Acres	Exams	Acres
ABBEVILLE	99	2,481.0	45	2,199.0	2	685.0
AIKEN	72	8,344.0	34	2,435.0	2	1,061.0
ALLENDALE	16	568.0	35	1,462.0	5	1,380.0
ANDERSON	92	6,764.0	8	441.0	0	0.0
BAMBERG	7	389.0	55	2,515.0	6	2,474.0
BARNWELL	27	2,653.0	53	2,724.0	10	1,721.0
BEAUFORT	4	155.3	5	345.0	2	2,103.0
BERKELEY	19	2,504.0	13	805.0	1	523.0
CALHOUN	17	1,279.0	33	1,192.0	0	0.0
CHARLESTON, UPPER	9	236.0	4	265.0	0	0.0
CHARLESTON, LOWER	43	7,148.0	4	258.0	5	895.0
CHEROKEE	34	2,515.0	3	385.0	0	0.0
CHESTER	2	127.0	39	607.0	2	609.0
CHESTERFIELD	21	3,172.6	73	3,481.3	7	3,232.0
CLARENDON	37	1,669.0	41	1,944.0	2	365.0
COLLETON	22	1,273.0	29	1,687.0	10	2,198.0
DARLINGTON	34	1,313.0	35	1,448.0	3	576.0
DILLON	26	2,025.0	32	1,418.0	0	0.0
DORCHESTER	8	770.0	12	1,017.0	0	0.0
EDGEFIELD	28	1,755.0	52	3,071.0	5	288.0
FAIRFIELD	11	454.0	28	556.0	0	0.0
FLORENCE	40	1,070.0	66	1,174.0	2	443.0
GEORGETOWN	6	495.0	15	678.0	0	0.0
GREENVILLE	110	4,119.0	0	0.0	0	0.0
GREENWOOD	43	3,430.0	20	860.0	1	249.0
HAMPTON	27	4,380.0	54	2,829.7	6	1,972.0
HORRY	48	5,642.0	41	1,775.0	1	87.0
JASPER	14	381.0	13	950.0	3	539.0
KERSHAW	18	1,540.5	15	1,093.0	1	73.0
LANCASTER	20	790.0	17	472.0	3	2,581.0
LAURENS	122	1,417.0	41	1,879.0	3	1,500.0
LEE	6	430.0	17	946.0	2	428.0
LEXINGTON	49	1,768.0	6	316.0	5	1,437.0
MCCORMICK	13	705.0	20	1,234.0	1	287.0
MARION	8	216.0	21	863.9	0	0.0
MARLBORO	39	3,093.0	12	266.0	1	115.0
NEWBERRY	23	1,473.0	41	1,394.0	5	288.0
OCONEE	166	6,841.5	1	10.0	0	0.0
ORANGEBURG	38	2,093.0	96	3,541.0	4	793.0
PICKENS	114	3,503.3	13	885.0	0	0.0
RICHLAND	59	4,486.0	0	0.0	3	1,250.0
SALUDA	13	918.0	58	2,685.0	1	67.0
SPARTANBURG	48	3,349.0	12	602.0	7	1,332.0
SUMTER	17	693.0	25	942.0	0	0.0
UNION	22	2,190.0	13	1,038.0	5	3,340.0
WILLIAMSBURG	26	2,322.0	110	4,622.0	13	3,520.0
YORK	60	4,339.0	5	262.0	1	900.0
STATE TOTALS	1,777	109,279.2	1,365	61,572.9	130	39,311.0



## Forest Services

Through this program the Commission provides assistance to landowners and other state agency lands with afforestation, reforestation, and maximization of production from their woodlands. The landowner is charged the cost of all services performed.

These services were available to landowners during the year:

- Firebreak Plowing - performed by Forestry Commission employees using agency equipment for \$75 for the 1st hour and \$50 for each additional hour.
- Prescribed Burning - performed by Forestry Commission employees using agency equipment for \$12 per acre for the 1st 50 acres, \$10 per acre for the 2nd 50 acres and \$8/acre for all over 100 acres. Firebreak plowing costs are not included. Minimum fee \$100.00.
- Prescribed Burning Standby- an agency tractor and employee on standby at burning site while landowner performed burning under an approved plan for \$45 for the 1st hour and \$20 for each additional hour.. Minimum fee \$100.00.
- Equipment Rental Program - agency owned tree planters, bedding plows and drum choppers made available to private landowners at rates from \$4 to \$15 per acre.
- Timber Marking - performed by Forestry Commission employees at the rate of \$5 per thousand board feet and \$2.00 per cord.

Service	# Tracts	Units of Measure	Receipts Received FY 95
Firebreak Plowing	660	1,437 miles	\$ 99,250
Prescribed Burning	144	7,381 acres	\$66,178
Prescribed Burning Standby	42	2,647 acres	\$6,433
Equipment Rental	35	902 acres	\$4,833
Water Bar Construction	23	518 bars	\$11,475
Timber Marking	24	3,579 cords	
		2,062,896 bd.ft.	\$22,413
Total Dollars	928		\$210,582

## URBAN FORESTRY

Urban forestry seeks to improve the quality of life in populated areas by providing direct technical assistance to communities and by working through partnerships with other organizations to protect and improve the management of urban tree resources. Clean air, clean water, improved aesthetics, increased property value, noise buffering, energy conservation, and public safety are some of the products of these endeavors.

### **Urban and Community Forestry Grant Program**

The Urban and Community Forestry Grant Program is a national program funded by Congress through the U.S. Forest Service. South Carolina received \$149,250 in base funding to provide technical assistance and training. Pass-through grants in the amount of \$225,000 were provided to county and local governments, non-profit organizations, and educational institutions to develop long-lasting urban forestry programs in their communities.

### **Partnership Development and Educational Programs**

Through the technical assistance and the grant funds, the urban program strives to develop partnerships with a variety of organizations and units of local government. Often these partnerships result in educational programs about the benefits and importance of urban forest resources. During FY96, the Forestry Commission developed partnerships with 250 other organizations and presented 140 educational sessions to almost 3300 participants.

### **Technical Assistance**

Three full-time urban foresters provide technical assistance on a regional basis in the Piedmont, Pee Dee, and Coastal regions of the state. Other Commission foresters provide urban forestry assistance in their respective areas on a time available basis.

Types of Technical Assistance	Non-Grant Through Forestry Commission Technical Assistance	Grant Program Accomplishments by Grantees
Program Development/Expansion	117	NA
Project Management	19	NA
Urban Forest Cultural Practices	872	NA
<b>TREES INVENTORIED</b>		
Miles	0	70
Total Trees Inventoried	95	10,293
<b>TREES PLANTED</b>		
Seedlings/Whips/Saplings (#)	1,103	429
Street/Park Size (#)	705	276
<b>TREES MAINTAINED (#)</b>	254	1,056
<b>TREES PROTECTED</b>		
Local Ordinances Passed/Revised (#)	0	4
<b>DEMONSTRATION PLANTING PROJECTS (#)</b>	0	9

A full-time Grants Administrator works in the Columbia Office along with the Urban Forestry Coordinator for statewide program management.

### **Tree City USA**

Sponsored by the National Arbor Day Foundation, TREE CITY USA is administered in South Carolina by the Forestry Commission. The program seeks to stimulate and promote the management of urban trees by recognizing towns and cities which meet the following criteria: (1) expenditure of at least two dollars per capita on tree care and planting, (2) establishment of a city tree ordinance (3) a legally constituted Tree Board, and (4) observance of Arbor Day by a mayor's proclamation and official ceremony. South Carolina ranks 26th nationally with 26 towns recognized as TREE CITY USA.

### **FOREST STEWARDSHIP**

The Forest Stewardship Program is a cooperative effort between the USDA Forest Service, Forestry Commission and natural resource agencies and organizations in South Carolina to encourage the long-term stewardship of non-industrial private forest lands. Landowners are provided technical assistance by having a multiple resource management plan developed for their property addressing their management objectives.

As of June 30, 1996, 1,716 requests covering over 490,111 acres have been received from landowners wanting to participate in this program. Natural resource professionals have completed 1,545 plans on 437,495 acres.

### **Stewardship Incentive Program**

Once landowners have an approved Stewardship Management Plan, they may be eligible to participate in the Stewardship Incentive Program (SIP). This is a federal cost-share assistance program to provide financial incentives to private landowners to carry out some of the management practices outlined in their Stewardship Management Plan.

South Carolina has received a total of \$1,749,411 for cost-share assistance under the Stewardship Incentive Program (SIP) through FY 1996. As of June 30, 1996, landowners have received \$1,178,604 in SIP cost-share assistance payments by completing approved practices.

### **SIP Accomplishments From Inception To 6/30/96**

	<b>Funded Requests</b>	<b>Acres Treated</b>	<b>Cost-share Earned</b>	<b>Unfunded Need</b>
SIP 2 Reforestation	221	8,175	\$622,497	\$536,529
SIP 3 Forest Improvement	66	3,070	\$84,668	\$40,105
SIP 4 Windbreak	0	0	\$0	\$1,614
SIP 5 Soil & Water	51	1,804	\$40,963	\$23,421
SIP 6 Riparian & Wetland	7	21	\$14,079	\$10,160
SIP 7 Fish Habitat	2	6	\$2,408	\$1,500
SIP 8 Wildlife Habitat	198	6,345	\$409,113	\$121,987
SIP 9 Recreation	6	159	\$4,876	\$3,201
<b>TOTAL</b>	<b>551</b>	<b>19,580</b>	<b>\$1,178,604</b>	<b>\$738,517</b>



## MANCHESTER STATE FOREST

Manchester State Forest, located south of Wedgefield in Sumter County is currently comprised of approximately 19,332 acres, 1,955 acres of which was recently purchased in January of 1996. From 1939 through 1955, the land was leased by the State of South Carolina from the federal government and managed by the South Carolina Forestry Commission. The State received title to the property on June 28, 1955.

### Receipts

#### Receipts For Operating Budget:

Forest Product Sales - 885,204 bd.ft., 4,420 cords	\$504,185.65
Wildlife (WMA)	\$ 24,526.07
Land Leases	\$ 1,836.50

Total	\$530,548.22
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Note: 25% of all forest receipts paid to county, totaling \$132,362.06

Timber sales were concentrated on thinnings in overstocked stands and conversion of older slash pine stands to longleaf plantations.

Forty free use permits were issued to individuals to rake straw for their personal use.

### Silvicultural Practices

Site preparation by drum chopping, chemical application, burning debris, V-blade and various combinations of the above was completed on 165 acres. These areas included stands that were previously understocked and therefore clear-cut. Old agricultural fields were also planted making the total areas artificially regenerated 181 acres.

The following species and number of trees were planted:

Improved Coastal Loblolly Pine	45,000
<u>Bareroot Longleaf Pine</u>	<u>53,500</u>
Total Trees Planted	98,500

A total of 381 acres were prescribed burned for site preparation, wildlife habitat enhancement, hardwood control and litter reduction. Weather and smoke management guidelines were a limiting factor in the completion of the proposed schedule of burning.

## **Forest Protection**

Four wildfires occurred on Manchester this year, burning a total of 15.3 acres. Firebreaks were maintained on those areas that were either high risk or high value. Two hundred thirty-two cords of pine pulpwood were salvaged that were diseased or insect or lightning damaged to maintain the overall forest health.

## **Recreation/Education**

Recreational use of the forest continues to escalate. Hunting, fishing, horseback riding, motorcycle/ATV riding and mountain biking continue to be favorite activities. Fishing opportunities increased with the opening of the 12 acre Campbell's Pond in June, 1996. Hunting was also enhanced by opening a portion of the sanctuary near the headquarters for big game archery hunting. The opening of the High Hills of Santee Passage of the Palmetto Trail from Mill Creek County Park through Manchester to Poinsett State Park will provide trail opportunities to hikers, mountain bikers and horseback riders. This passage is currently 15 miles long with plans of extending through Manchester, across the Wateree River and into Richland County. A day use parking lot is also being planned in conjunction with the final segment of the trail.

The rifle/pistol range is a popular attraction at Manchester with a total of 732 free use permits issued with an average of three visits per permit. The range is staffed by one temporary employee and a group of approximately 40 dedicated volunteers.

Four educational programs were conducted by the forest staff and area personnel with approximately 100 individuals involved.

Ten special use permits were issued for organized events with approximately 2,300 participants.

## **Wildlife Management**

Approximately 16,000 acres of the forest are included in the Wildlife Management Area Program through a cooperative agreement between the Department of Natural Resources and the South Carolina Forestry Commission. Technical assistance with game food plot establishment, monitoring deer herd dynamics, tracking various nongame and game species, pond management, and law enforcement on the forest is provided through interagency cooperation.

Planting and maintenance was conducted on 68 wildlife food patches containing 110 acres. Wheat, rye, clover, Austrian winter pea, corn, soybeans, Kober lespedeza, sorghum, browntop millet and strut-n-rut were utilized to diversify the food supply. Fruit and nut bearing trees and shrubs include, bicolor, crab apples, Carolina buckhorn, chickasaw plum, waxmyrtle and red cedar. Several of these species were donated through the Department of Natural Resources and planted by the SCFC and DNR personnel as well as prison labor from the Wateree Correctional Institute.

Campbell's Pond was drained, refilled, and limed with the assistance of the fisheries biologists from the Department of Natural Resources. Catfish, bream, and bass were restocked and the pond is being fertilized on a regular basis. The pond reopened for anglers during June of 1996.

## SAND HILLS STATE FOREST

Sand Hills State Forest, located in Chesterfield and Darlington Counties, contains 46,000 acres. The forest was operated under a Lease from the federal government from 1939 until 1992 at which time title was transferred to the Forestry Commission.

### **Receipts**

Timber sales, Pine straw, WMA payment  
Land lease payments, miscellaneous  
TOTAL: \$1,190,913.72

Note: 25% of all forest receipts are paid to Chesterfield and Darlington Counties.

### **Silvicultural Practices**

Site Prep	1,052 acres
Plantings	973 acres on Forest 150 acres on US Fish & Wildlife Refuge
Prescribed Burning	1,000 acres

### **Forest Protection**

Ten (10) wildfires burned 24.5 acres.

### **Recreation**

1. H. Cooper Black Trails are near completion,
2. New camping area for horse groups constructed at Sugarloaf Mountain,
3. Three new toilets constructed at Sugarloaf Mountain

### **Wildlife Management**

1. Fifty (50) acre dove field improved
2. One hundred forty-three (143) acres of food plot plantings, each 1/4 to 1/3 acre in size. Plots planted in Chufa, Bahia, Sorghum, Clay Peas, Browntop Millet, Sunflowers, White Proso Millet, QU mix, Egyptian Wheat, Spring Game Mix, Corn, Soybeans, Wildlife Pea and Dove Banquet Mix. Bicolor plots were bushhogged and fertilized
3. Forty (40) new acres have been cleared for more food plot
4. Scent survey, Fox Squirrel survey, Turkey survey and Quail surveys were conducted
5. Established wood duck boxes were monitored and 5 new boxes installed.

### **Educational Activities**

1. Sand Hills personnel conducted 8 programs in local secondary schools and universities.
2. Worked with Bowater Inc. on a teacher recertification program for 27 teachers.
3. One Boy Scout Eagle project was completed.
4. RCW research project was initiated.
5. Sludge research project in conjunction with the Town of Cheraw initiated.
6. Longleaf regeneration research project with U.S. Forest Service is ongoing.

### **Endangered Species**

1. RCW work is ongoing. Currently have 59 clusters with 227 active cavity trees.
2. Artificial RCW cavities have been installed in 23 trees at various locations to serve as recruitment sites.



## **HARBISON STATE FOREST**

Harbison State Forest, located northwest of Columbia in Richland County, contains 2,188 acres. The tract is being managed as a public greenspace, emphasizing environmental and forestry education and demonstrating forest management practices.

### **Construction Projects:**

Construction was conducted on the stewardship road area (0.5 mile). A summer internship program employed 2 forestry students to assist in maintenance and trail construction.

A Historic Tree Grove was established in cooperation with 10 chapters of the S.C. Womens Clubs. Eleven historic trees were purchased from American Forest for planting.

Construction began on the Harbison State Forest Environmental Education Center.

### **Educational Activities:**

Harbison Forest hosted a mountain bike race for the Leukemia Society of America.

Two outdoor leadership training workshops were conducted for 80 Boy Scout leaders.

The forest was used as a training site for wildlife officers and ROTC personnel.

Fifteen Boy Scout tours were conducted.

Seventy-five Boy Scouts earned Forestry Merit Badges.

Eighty Cub Scouts earned forestry pins.

Eight Boy Scouts attained the rank of Eagle Scout through projects completed on the forest.

Fifty-two school programs were conducted, with an attendance of 1250.

Thirty scout troops reserved the forest facilities for overnight camping and programs, with 950 scouts participating.

A publication was produced entitled "What Tree Is This", a tree identification booklet.

### **Management Activities:**

Two timber sales were conducted on 187 acres with 819,558 board feet and 255 cords of pine timber selectively thinned from the forest.

Harbison experienced one wildfire during the year, with no appreciable damage.

Harbison continued a seven day week operation with an estimated attendance of 50-60,000.

## STATE LANDS MANAGEMENT PROGRAM

The state lands forest management program was created to provide professional forest management assistance to South Carolina state agencies that own timber lands.

During fiscal year 1995-96, seven agencies requested assistance from the State Lands Coordinator. The agencies and facilities were as follows:

### **Department of Natural Resources**

- Webb Wildlife Center
- Samworth Wildlife Management Area
- Donnelley Wildlife Management Area
- Palachucola Wildlife Management Area
- Mason Wildlife Management Area
- Gopher Tortoise Heritage Preserve

### **S.C. Department of Mental Health**

- Pee Dee Mental Health Center

### **South Carolina State College**

- Camp Harry Daniels

### **Department of Corrections**

- McCormick Correctional Institution

### **S.C. Research Authority**

- Clemson Research Park
- Carolina Research Park

### **Wil Lou Gray Opportunity School**

### **S. C. Public Service Authority (Santee Cooper)**

- Old Myrtle Beach Air Force Base

### **Timber Revenue**

Four state owned tracts were marked or cruised for timber sales. The total volume sold was 1.5 million board feet and 6,547 cords of pine sawtimber and pulpwood which generated \$629,211 in revenue for state agencies.

### **Silvicultural Practices**

250 acres of longleaf pine planted on Palachucola Wildlife Management Area. 150 acres of prescribed burn carried out on Heritage trust, Gopher Tortoise Preserve

### **Miscellaneous Requests**

The State Lands Coordinator served as an instructor in two wildlife management workshops at Webb Wildlife Center.

The State Lands Coordinator is assisting the U.S. Forest Service and South Carolina State College in the development of forest management demonstration areas at Camp Harry Daniels.

The State Lands Coordinator, area and project foresters are providing internal agency assistance with plans and timber marketing on newly acquired timberlands on the old Myrtle Beach Air Force Base.

## NURSERIES AND TREE IMPROVEMENT

The SC Forestry Commission operated Taylor Forest Tree Nursery (bareroot) at Trenton and Creech Containerized Greenhouse at Wedgefield for the production of seedlings for South Carolina landowners.

This year 17,572,000 seedlings were grown and 16,841,263 were shipped. This included 1,225,000 seedlings purchased out of state. South Carolina's forest industries planted an additional 22,834,000 seedlings on company lands. A grand total of 99,549,491 seedlings were planted on 153,153 acres in the state during the year.

The Piedmont, Coastal, and Sumter facilities continue to house white pine, Virginia pine and a hardwood genetics program. Spartanburg, Sumter, Coastal and Taylor facilities are used as seedling distribution centers. Taylor is the only bareroot production facility.

### Containerized Seedlings

Specialized needs exist for seedlings other than bareroot stock grown at the SC Forestry Commission's Taylor Nursery. To meet these needs, a triple bay greenhouse is maintained at Creech Seed Orchard in Wedgefield. Containerized seedlings, rooted cuttings and progeny test materials are grown at the greenhouse. The greenhouse and associated slathouses give the Commission the capacity to grow a million plus containerized seedlings annually. The greenhouse production was 944,460 for Fiscal Year 1995-1996.

### Research

The SC Forestry Commission continues cooperative research projects with Clemson University, Auburn University, and the U. S. Forest Service. The Commission also maintains membership in the North Carolina State University Pine Tree Improvement Cooperative, the North Carolina State Hardwood Research Cooperative, and the Auburn University Southern Forest Nursery Management Cooperative.

### Forest Tree Seed Collection Program

Each year the SC Forestry Commission collects or purchases pine cones and other forest tree seed for seedling production. During the past year, Walnut, Baldcypress, Red Cedar, Yellow Poplar, and Longleaf Pine seed were either purchased or collected for future seedling production.



## State Nurseries Seedling Production by Species 1995-96

### Bareroot Seedlings

Improved Coastal Loblolly Pine	4,200,000
Improved Piedmont Loblolly Pine	6,450,000
Improved Texas Loblolly Pine	30,000
Longleaf Pine	4,000,000
Improved Virginia Pine	200,000
Improved White Pine (2-0)	150,000
Baldcypress	80,000
Red Cedar	185,000
Yellow Poplar	-0-
Improved Sycamore	60,000
Black Walnut	45,000
Crepe Myrtle	-0-
Dogwood	-0-
Redbud	-0-
Bicolor Lespedeza	1,000,000
Sawtooth Oak	50,000
Miscellaneous	3,000
<b>Total</b>	<b>16,453,000</b>

White Pine (1-0) Not For Sale 180,000

### Containerized Seedlings (Creech Greenhouse)

Improved Piedmont Loblolly Pine	-0-
Improved Coastal Loblolly Pine	-0-
Improved Virginia Pine	13,000
Improved Longleaf Pine	834,000
Leyland Cypress	65,000
Carolina Sapphire	15,000
Clemson Greenspire	12,000
Miscellaneous	-0-

**Total 939,000**

**Grand Total 17,572,000**

## Tree Seedling Distribution by Landowner Classification

### A. Seedlings Planted in the State by Land Ownership:

Land Ownership	Percent of Total	Number Trees Planted
1. Private Ownership	27	26,977,219
2. Christmas Tree Growers	<1	147,932
3. Forest Industry (Pulp & Paper)	36	36,272,776
4. Lumber	7	7,245,000
5. Forest Industry (Other Corp.)	24	24,525,541
6. Schools	<1	13,962
7. State Forest	<1	625,300
8. Other State Land	<1	102,200
9. Other Government Land	<1	86,554
10. Federal Land	3	3,369,690
11. Associations/Clubs	<1	183,317
<b>Total</b>	<b>100</b>	<b>99,549,491</b>

### B. Source of Seedlings Planted in the State:

1. Nurseries in South Carolina	
SC Forestry Commission (Includes Greenhouse)	16,841,263
Champion International	13,818,496
International Paper Company	30,059,400
Westvaco	21,260,943
Weyerhaeuser	9,958,389
Tall Pines	90,000
<b>Total</b>	<b>92,028,491</b>
2. Nurseries Outside of South Carolina	
Georgia Forestry Commission	270,000
Federal Paper Board	2,379,000
Union Camp	985,000
International Forest Tree Seed Company	2,984,000
North Carolina Forest Service	544,000
Georgia Pacific	359,000
<b>Total</b>	<b>7,521,000</b>

**Total Seedlings and Acres Planted in South Carolina**  
1929-1996 by county

County	Seedlings Planted 1995-1996	Grand Total Planted To Date 1929-96	Acres Planted 1929 - 6/30/96
ABBEVILLE	981232	10137624	78528
AIKEN	4061595	231910724	288587
ALLENDALE	2418178	99296200	128105
ANDERSON	1105460	51365670	60651
BAMBERG	407932	63425738	82775
BARNWELL	2542540	28180918	165712
BEAUFORT	755177	27624183	36972
BERKELEY	4444928	128165013	162126
CALHOUN	356248	48194380	63371
CHARLESTON	3294107	50012194	66738
CHEROKEE	58268	33398062	40519
CHESTER	2046672	83817494	128220
CHESTERFIELD	840276	144102100	172101
CLARENDON	2132485	68682210	85928
COLLETON	3233100	134457638	184142
DARLINGTON	324488	37117652	46378
DILLON	1825029	32095019	38479
DORCHESTER	1670270	85270434	104173
EDGEFIELD	6936589	82372327	112517
FAIRFIELD	2245100	113057809	141548
FLORENCE	573120	35091553	43605
GEORGETOWN	3028360	143238773	179680
GREENVILLE	257393	29898411	35043
GREENWOOD	4610872	91243261	104923
HAMPTON	2276183	108093406	138028
HORRY	546530	78978195	92463
JASPER	1919952	97684040	115103
KERSHAW	1757478	187759466	221642
LANCASTER	1627493	78773837	97600
LAURENS	2006202	100733551	188750
LEE	346247	35794633	45505
LEXINGTON	3284671	66530549	83661
MARION	331423	38320174	48310
MARLBORO	3050869	59634253	75312
MCCORMICK	2590985	52640273	70624
NEWBERRY	1140833	93010080	123108
OCONEE	2781932	37897707	41635
ORANGEBURG	2726664	142004769	210784
PICKENS	115668	28828635	34064
RICHLAND	409272	29922092	81748
SALUDA	3530603	56226974	79531
SPARTANBURG	2841172	62682966	74824
SUMTER	3387440	70875061	84160
UNION	2599336	77060315	98932
WILLIAMSBURG	3615166	109306072	149245
YORK	3774711	63620497	77659
MULTIPLE COUNTIES	2739242	118464614	195168
<b>TOTAL</b>	<b>99,549,491</b>	<b>3,646,997,546</b>	<b>4,978,679</b>



# Seedling Distribution 1927 - 1996

YEAR	TOTAL STATE NURSERIES	TOTAL ALL SOURCES	YEAR	TOTAL STATE NURSERIES	TOTAL ALL SOURCES
1928-29	142000	142000	1961-62	71892420	83844470
1929-30	148000	148000	1962-63	56191241	64201541
1930-31	986000	986000	1963-64	51445597	62423597
1931-32	976000	976000	1964-65	49009893	60683493
1932-33	996000	996000	1965-66	42310685	56529185
1933-34	1031000	1031000	1966-67	48575190	69597590
1934-35	7529000	7529000	1967-68	39970136	58812136
1935-36	23000000	23000000	1968-69	29529285	51453285
1936-37	22000000	22000000	1969-70	31415430	49202630
1937-38	11192000	11192000	1970-71	31939880	54540880
1938-39	10854000	10854000	1971-72	23677925	41357225
1939-40	12244000	12244000	1972-73	30977800	45239100
1940-41	21165423	21165423	1973-74	28443000	42305500
1941-42	10275037	10275037	1974-75	40081500	55996500
1942-43	4742010	4742010	1975-76	40664387	59063387
1943-44	5662608	5662608	1976-77	39795375	59238275
1944-45	1962600	1962600	1977-78	45734500	64380200
1945-46	6402255	6402255	1978-79	43009533	65936933
1946-47	1962600	1962600	1979-80	46374919	76206619
1947-48	11356990	11356990	1980-81	53512622	86419513
1948-49	30338775	30338775	1981-82	55727828	87793028
1949-50	29501955	29501955	1982-83	47798858	86265299
1950-51	20615315	20615315	1983-84	50169612	100394312
1951-52	16619000	19619000	1984-85	51635770	107717581
1952-53	22035850	32246298	1985-86	65464810	124381360
1953-54	36210100	42852314	1986-87	73554964	157522970
1954-55	35373025	45182255	1987-88	78787967	164094827
1955-56	34413550	42931755	1988-89	55051595	153450416
1956-57	55753600	69658736	1989-90	38355557	128475489
1957-58	60846200	93369084	1990-91	29297000	102384439
1958-59	123985000	166351000	1991-92	31983779	94710582
1959-60	147146365	187516418	1992-93	22665397	84287351
1960-61	145609075	158330575	1993-94	23286422	119310888
			1994-95	16153974	90333823
			1995-96	16841263	99549491

TOTAL STATE NURSERIES:

2,414,401,447

TOTAL ALL SOURCES:

4,001,244,918

## SEED ORCHARDS

Since 1963, the SC Forestry Commission has been a participating member in the NC State University Industry Cooperative Tree Improvement Program. Understanding that trees could be genetically improved, substantial gains have been and will continue to be possible. Success over time has and will continue to result in firm commitments to tree improvement programs. As tree improvement programs continue, new and greater challenges in accomplishing breeding and operational goals will become evident. All Loblolly Pine seedlings for the 1995-1996 planting season were from second generation genetically improved sources. Seed orchards and seed production areas at the Coastal and Piedmont facilities are young and non producing.

### Creech Seed Orchard

	<u>Acres</u>
Coastal Loblolly (Disease Resistant)	5
Piedmont Loblolly (Disease Resistant)	5
Longleaf (1st Generation)	12
Virginia Pine (1st Generation)	3
<b>TOTAL</b>	<b>25.00</b>

### Niederhof Seed Orchard

Coastal Loblolly (2nd Generation)	204
Piedmont Loblolly (2nd Generation)	118
Longleaf Pine (1st Generation)	30
Sawtooth Oak (Seed Production)	2
<b>TOTAL</b>	<b>354</b>

### Coastal Seed Orchard

Sycamore	4
Sweetgum	6
Willow Oak (Seed Production)	1.3
Swamp Chestnut Oak	1.2
Green Ash	3.3
Red Maple	1.3
Southern Red Oak	2.2
White Oak	1.9
<b>TOTAL</b>	<b>21.2</b>

### Piedmont Seed Orchard

White Pine (1.5 Generation)	12
Northern Red Oak	2
Virginia Pine (1st Generation)	3
<b>TOTAL</b>	<b>17</b>

<b>GRAND TOTAL ORCHARD ACRES</b>	<b>417.20</b>
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## NIEDERHOF SEED ORCHARD

Opening Niederhof Seed Orchard to controlled hunting continues the Forestry Commission's concept of multiple use management of state owned lands. Hunting rules, regulations and guidelines have been adopted and are being administered by the Forestry Commission.

The following schedule relates to allowed hunting at Niederhof.

<u>Species</u>	<u>Season</u>	<u>Hunt Days</u>	<u>Hours</u>	<u>Restrictions</u>	<u>Fees</u>
Deer	1-Oct. 31-Dec.	Saturday	Dawn Sunset	Still Hunt	\$20.00
Quail	1-Jan. 26-Feb.	Tues./Thur.	Dawn Sunset	Max 3 Hunters Per Party	\$10.00
Turkey	16-Mar. 27-Apr.	Tues./Thur.	Dawn Sunset	Stalking	\$10.00

## SUMMARY OF HUNTING ACTIVITIES

	<u>Number of Participants</u>	<u>Number of Use Days</u>	<u>Number Harvest</u>	<u>Revenue</u>
Deer	120	8	40	\$2,300
Quail	19	6	14	\$ 120
Turkey	27	11	8	\$ 330
Totals	166	25	62	\$2,750

Counties receive 25% of revenue generated from set aside land with allotment payments, timber, straw sales, and wildlife activities. Revenue generated through these sources at Niederhof Seed Orchard for Jasper County was \$1,786.23 and at Taylor Nursery for Edgefield County was \$17,063.75.

	<u>25%</u>	<u>Revenue</u>
Jasper	\$1,786.23	\$7,144.91
Edgefield	17,063.75	68,255.00



# Forest Tree Seedling Sales, Distribution by Species by County

COUNTY	IMPROVED COASTAL LOBLOLLY PINE	IMPROVED PIEDMONT LOBLOLLY PINE	IMPROVED SLASH PINE	LONGLEAF PINE	SWEETGUM	SANTOOTH OAK	YELLOW POPLAR	BALD CYPRESS	BLACK WALNUT	SYCAMORE	IMPROVED WHITE PINE	DEODAR	IMPROVED VIRGINIA PINE	EASTERN RED CEDAR	SAPPHIRE	GREEN- SPIRE	LEYLAND CYPRESS	MISC. SPECIES	TOTAL
ABBEVILLE	240,306	738,312	0	0	0	0	600	100	0	0	0	0	1,090	500	0	0	324	0	981,232
AIKEN	592,000	2,631,563	0	802,898	0	1,600	100	2,900	100	200	7,600	0	14,960	4,100	396	450	1,728	1,000	4,061,595
ALLENDALE	2,366,295	0	0	48,985	0	200	0	0	500	0	500	0	1,090	500	0	0	108	0	2,418,178
ANDERSON	0	1,081,100	0	1,000	0	200	3,600	1,000	1,100	1,000	4,700	0	2,480	5,000	468	126	3,186	500	1,105,460
BAMBERG	334,939	0	0	60,560	0	200	0	100	0	10,533	0	0	0	1,600	0	0	0	0	407,932
BARNWELL	2,427,388	4,000	0	103,500	0	700	600	500	0	0	3,000	0	500	1,700	144	36	72	400	2,542,540
BEAUFORT	439,109	0	0	309,680	0	100	0	100	0	0	100	0	3,000	1,000	126	252	1,710	0	755,177
BERKELEY	4,345,068	0	0	71,525	0	0	100	2,100	100	22,676	1,000	0	595	500	522	144	198	400	4,444,928
CALHOUN	341,175	0	0	7,770	0	0	0	500	100	0	0	0	1,545	4,600	108	72	378	0	356,248
CHARLESTON	2,649,367	0	0	604,090	0	220	500	210	100	25,245	600	0	4,235	2,200	522	918	5,850	50	3,294,107
CHEROKEE	0	53,000	0	0	0	0	0	0	500	0	2,000	0	1,600	700	216	0	252	0	58,268
CHESTER	0	2,041,600	0	0	0	1,000	0	0	100	0	1,000	0	1,100	0	306	72	1,494	0	2,046,672
CHESTERFIELD	1,000	447,000	0	375,520	0	1,000	2,000	6,700	0	100	600	0	2,500	3,100	54	54	648	0	840,276
CLARENDON	2,083,216	0	0	41,625	0	1,100	0	0	0	0	500	0	4,940	600	234	0	270	0	2,132,485
COLLETON	2,980,597	0	0	110,980	0	100	0	1,100	0	110,750	1,000	0	2,835	24,600	216	126	396	400	3,233,100
DARLINGTON	233,426	0	0	85,500	0	100	100	200	100	0	500	0	1,190	1,500	162	18	1,692	0	324,488
DILLON	1,712,593	100,000	0	7,500	0	0	0	1,000	0	0	0	0	1,360	2,000	180	0	396	0	1,825,029
DORCHESTER	1,563,657	0	0	500	0	600	500	500	200	90,547	0	0	11,050	700	576	306	1,134	0	1,670,270
EDGEFIELD	0	6,918,075	0	10,000	0	200	0	0	500	0	1,800	0	3,100	1,600	180	288	846	0	6,936,589
FAIRFIELD	1,049,750	1,126,000	0	66,000	0	200	2,000	0	0	0	100	0	100	500	0	0	450	0	2,245,100
FLORENCE	391,305	157,000	0	7,950	0	100	1,500	500	800	500	1,000	0	5,525	3,300	144	216	2,880	400	573,120
GEORGETOWN	3,024,904	0	0	0	0	100	0	0	0	0	1,000	0	1,000	600	270	90	396	0	3,028,360
GREENVILLE	0	228,545	0	2,500	0	1,100	1,100	900	600	600	11,400	0	2,920	4,200	72	432	3,024	0	257,393
GREENWOOD	0	4,597,860	0	1,000	0	1,900	0	100	100	500	4,600	0	3,000	600	0	36	576	600	4,610,872
HAMPTON	2,246,328	0	0	26,475	0	100	0	1,000	0	726	1,000	0	100	0	0	0	54	400	2,276,183
HORRY	425,592	45	0	109,540	0	100	500	1,200	500	0	2,000	0	3,835	2,300	216	216	486	0	546,530
JASPER	1,838,674	500	0	14,500	0	600	0	0	0	58,100	1,000	0	4,200	1,100	90	252	936	0	1,919,952
KERSHAW	174,045	1,310,225	0	257,680	0	200	1,000	0	100	5,000	1,000	0	3,040	2,700	234	234	1,620	400	1,757,478
LANCASTER	0	1,604,000	0	15,000	0	100	0	1,500	1,000	500	200	0	4,545	0	126	126	396	0	1,627,493
LAURENS	44,000	1,957,300	0	0	0	600	0	100	0	0	900	0	2,100	500	36	0	666	0	2,006,202
LEE	340,093	0	0	2,000	0	300	0	0	0	0	1,200	0	1,600	1,000	0	0	54	0	346,247
LEXINGTON	2,752,500	164,800	0	303,155	0	2,300	100	2,800	500	500	12,976	0	27,225	9,100	1,746	756	6,138	75	3,284,671
MARION	154,093	162,840	0	0	0	600	0	5,500	0	0	4,000	0	2,950	500	180	180	180	400	331,423
MARLBORO	2,821,999	0	0	16,400	0	0	400	6,200	0	0	0	0	2,100	3,500	54	0	216	0	3,050,869
MCCORMICK	0	2,590,285	0	0	0	0	0	200	0	0	0	0	0	500	0	0	0	0	2,590,985
NEWBERRY	0	1,122,300	0	5,045	0	800	100	2,100	0	2,000	2,000	0	4,500	600	90	54	1,044	200	1,140,833
OCONER	0	2,754,160	0	1,000	0	700	1,700	100	100	100	13,100	0	500	1,500	342	36	594	8,000	2,781,932
ORANGEBURG	2,157,059	424,000	0	68,330	0	4,800	500	3,500	3,500	32,281	5,650	0	12,690	11,000	198	72	684	2,400	2,726,664
PICKENS	0	80,500	0	0	0	1,000	3,100	500	1,100	500	18,400	0	3,100	4,800	324	270	1,674	400	115,668
RICHLAND	49,000	162,450	0	171,085	0	1,000	100	4,100	700	2,000	1,300	0	5,365	8,300	900	378	2,592	2	409,272
SALUDA	24,500	3,500,915	0	0	0	100	0	0	0	100	1,200	0	3,040	100	108	90	450	0	3,530,603
SPARTANBURG	0	2,801,150	0	360	0	2,500	3,200	1,200	1,800	800	12,500	0	6,400	2,600	1,476	1,224	5,562	400	2,841,172
SUMTER	3,280,593	2,180	0	73,610	0	500	500	1,600	600	100	3,100	0	15,135	7,700	342	270	810	400	3,387,440
UNION	0	2,596,600	0	500	0	200	0	0	0	0	1,500	0	0	500	0	0	36	0	2,599,336
WILLIAMSBURG	3,512,063	1,000	0	93,815	0	200	500	2,000	100	0	100	0	3,000	2,100	108	54	126	0	3,615,166
YORK	0	3,754,160	0	5,000	0	700	100	0	0	0	3,100	0	6,145	1,600	252	54	3,600	0	3,774,711
MULTIPLE COUNTIES	1,029,495	1,025,000	0	547,497	0	1,500	500	7,500	1,750	4,300	15,250	0	3,000	3,750	0	0	0	1,550	2,641,092
OUT-OF-STATE	0	10,750	0	14,000	0	0	9,000	4,000	1,300	0	6,200	0	1,100	50,100	0	0	0	0	96,450
UNKNOWN	0	0	0	0	0	100	0	100	0	0	0	0	1,000	500	0	0	0	0	1,700
TOTALS	47,626,129	46,349,215	0	4,444,075	0	29,720	34,000	63,710	17,950	369,658	150,676	0	188,385	182,050	11,718	7,902	55,926	18,377	99,549,491

## FIRE MANAGEMENT

*Area protected: 12,706,604 acres. Acres protected is based on the 1993 Forest Survey data for non-federal woodland, plus 10% to cover adjacent non-forest land. Mutual aid is provided on 903,467 acres of federal land.*

### Fire Protection Cooperatives

Southeastern States Forest Fire Compact Commission (SCFC responded with personnel and equipment to compact activation by the State of Texas.)

SC Division of Emergency Preparedness (SCFC provided field support and EOC staffing for one emergency incident.)

Wildland Fire Protection Partnership (SCFC produced WFPP exhibit at SC Firemen's Association Conference.)

Rural Cooperative Fire Protection Program (128 fire department applied for grants; 48 grants, totalling \$28,000, were funded.)

Federal Excess Property Program (160 pieces of Federal Excess equipment were loaned to fire departments this year. At present, 481 pieces of equipment are assigned to 275 departments statewide).

National Weather Service

USDA Forest Service

DOD Corps of Engineers

USDI Fish and Wildlife Service

USDI Park Service

### Fire Weather

Weather Stations. The Forestry Commission, US Forest Service, National Park Service, and US Fish and Wildlife Service have a network of 12 Automated Weather Stations in the state. Data from these stations are used in daily calculation of the Fire Danger Rating; special data from these stations is also provided to the National Weather Service. Weather conditions of these stations are available 24 hours a day for wildfire and prescribed fire behavior predictions.

### Inches Precipitation-FY 96\*

<u>Month</u>	<u>Precipitation</u>	<u>Average Precipitation</u>	<u>Departure from Normal</u>
July 95	4.67	5.74	-1.07
Aug	10.35	5.48	+4.87
Sept	3.22	4.19	-0.97
Oct	5.84	2.89	+2.95
Nov	4.30	2.45	+1.85
Dec	2.53	3.48	-0.95
Jan 96	4.60	3.56	+1.04
Feb	2.59	3.98	-1.39
Mar	5.43	4.24	+1.19
Apr	2.47	3.29	-0.82
May	3.13	3.70	-0.57
June	3.21	4.72	-1.51
<b>TOTAL</b>	<b>52.34</b>	<b>47.72</b>	<b>+4.62</b>

### Precipitation Last 5 Years\*

<u>Fiscal Year</u>	<u>Precip. Inches</u>	<u>Departure from Normal</u>
1991-92	49.39	-1.02
1992-93	54.93	+4.60
1993-94	42.76	-7.57
1994-95	57.29	+4.69
1995-96	47.72	+4.62
<b>5-Yr. Av.</b>	<b>50.40</b>	<b>+2.68</b>

\*measured by NOAA and SC Climatology Office

### Readiness Plan

#### Readiness Levels--Fiscal Year 96\*

<u>Level</u>	<u>No. Days</u>
Readiness 1 (No Danger)	45
Readiness 2 (Low Danger)	259
Readiness 3 (Moderate Danger)	49
Readiness 4 (High Danger)	13
Readiness 5 (Extreme Danger)	0

\*Average for state



## Dispatch and Air Operations

**Dispatch.** On May 15, the Commission converted to 3 region dispatch centers located in Florence, Walterboro, and Newberry, with Florence operating at night for statewide coverage.

**Air Operations.** The Forestry Commission continued to use its 8 pilots and Federal Excess planes for both detection and incident intelligence. Private aerial contractors, trained in wildfire detection by the Commission, supplement the agency's resources when needed. Forestry Commission pilots and private contractors logged over 5,834 hours of aerial detection/suppression time during the year.

## Prescribed Fire

**Certified Prescribed Fire Manager Training.** Three CPFM schools were conducted during the year.

Burning done for forest, wildlife, and agriculture management during the Fiscal Year is as follows:

Region	Understory		Site Prep		Wildlife		Agriculture	
	Number	Acres	Number	Acres	Number	Acres	Number	Acres
Coastal	2,246	182,677	2,560	6,634	563	70,755	5,650	99,645
Pee Dee	1,052	72,272	227	9,130	436	26,923	6,224	112,858
Piedmont	93	7,548	133	8,774	36	2,180	428	10,986
TOTALS	3,391	262,497	2,920	24,538	1,035	99,858	12,302	223,489

## Burning Notifications

Abbeville	2,770	Greenwood	4,409
Aiken	9,735	Hampton	4,608
Allendale	1,013	Horry	10,715
Anderson	13,610	Jasper	4,579
Bamberg	1,099	Kershaw	9,051
Barnwell	3,178	Lancaster	2,847
Beaufort	2,507	Laurens	3,586
Berkeley	9,720	Lee	1,082
Calhoun	1,609	Lexington	35,610
Charleston	6,757	McCormick	895
Cherokee	5,665	Marion	8,186
Chester	3,217	Marlboro	4,016
Chesterfield	5,631	Newberry	2,125
Clarendon	4,084	Oconee	9,080
Colleton	12,389	Orangeburg	4,901
Darlington	3,206	Pickens	7,001
Dillon	2,427	Richland	7,629
Dorchester	8,220	Saluda	999
Edgefield	2,385	Spartanburg	8,424
Fairfield	4,394	Sumter	8,757
Florence	6,879	Union	377
Georgetown	6,236	Williamsburg	3,475
Greenville	10,757	York	12,399

TOTAL 281,912

## Fires by Cause

Cause	Acres		Av. Acres Per Fire	Percent of Total	
	Number	Burned		1995-96	5 Yr. Av.
Lighting	79	589.3	7.5	1.82	2.04
Campfire	14	99.5	7.1	.32	.55
Smoking	129	371.1	2.9	2.97	3.42
Debris Burning	1,653	8,294.9	5.0	38.08	33.65
Incendiary	1,798	15,366.9	8.5	41.42	43.39
Equipment	203	664.2	3.3	4.68	5.13
Railroad	33	140.4	4.3	.76	.98
Children	188	433.9	2.3	4.33	4.75
Miscellaneous	244	1,151.9	4.7	5.62	6.09
<b>TOTALS</b>	<b>4,341</b>	<b>27,112.1</b>	<b>6.2</b>	<b>100.00</b>	<b>100.00</b>

## Five-Year Summary All Fires

Fiscal Year	Acres Protected	Forest Land		Non-Forest Land		All Lands			
		Number Fires	Acres Burned	Number Fires	Acres Burned	Number Fires	Acres Burned	Average Per Fire	% Area Burned
91-92	12,558,258	5,619	34,970.4	1,599	6,864.6	7,331	41,835.0	5.7	0.33
92-93	12,558,258	3,179	21,447.0	673	2,931.0	3,852	24,379.0	6.3	0.19
93-94	12,706,604	5,671	35,373.2	797	4,700.8	6,468	40,074.0	6.2	0.32
94-95	12,706,604	2,824	14,354.3	553	2,170.2	3,377	16,524.5	4.9	0.13
95-96	12,706,604	3,618	23,417.3	723	3,694.8	4,341	27,112.1	6.2	0.21
<b>5-Year Average</b>		<b>4,182</b>	<b>25,912.4</b>	<b>869</b>	<b>4,072.3</b>	<b>5,074</b>	<b>29,985.0</b>	<b>5.9</b>	<b>0.24</b>

## Law Enforcement

The Forestry Commission has 74 commissioned law enforcement officers, all certified by the Criminal Justice Academy.

## Fire Information/Fire Prevention

Major accomplishments during the year: trained 17 fire information officers, designed and coordinated 2 public information campaigns, wrote and coordinated production of three interagency fire prevention TV spots, and participated in a statewide teleconference on firefighter arson.

Media Interviews 76

Feature Articles 1

News Releases 29

# LAW ENFORCEMENT SUMMARY

COUNTY/ STATE FOREST	Careless-Negligent		Intentional		Wilful-Malicious		Precaution		Burn Ban		State Forest Regulation		Other		Burnsite Inspect.	Extended Investig.	Timber Theft	Total V	P
	P	C	P	C	P	C	P	C	P	C	P	C	P	C					
Abbeville	2	1	0	0	0	0	0	0	0	0	0	0	0	0	7	9	0	12	2
Aiken	1	1	0	0	0	0	2	2	0	0	0	0	0	0	1	16	0	106	3
Allendale	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	19	0	16	1
Anderson	3	3	0	0	0	0	0	0	0	0	0	0	0	0	2	21	0	10	3
Bamberg	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	35	2
Barnwell	4	4	0	0	0	0	10	10	0	0	0	0	0	0	4	27	0	42	14
Beaufort	4	3	0	0	0	0	3	3	0	0	0	0	0	0	10	55	0	86	7
Berkeley	12	9	0	0	1	1	35	35	0	0	0	0	1	1	42	84	0	387	53
Calhoun	9	9	0	0	0	0	3	3	0	0	0	0	0	0	11	22	0	24	11
Charleston	0	0	0	0	0	0	4	4	0	0	0	0	0	0	4	30	0	30	5
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0
Chester	1	2	0	0	0	0	0	0	0	0	0	0	0	0	6	4	0	18	2
Chesterfield	5	5	0	0	0	0	2	2	0	0	0	0	0	0	0	24	0	78	7
Clarendon	8	8	0	0	0	0	2	2	0	0	0	0	0	0	1	23	0	144	10
Colleton	26	24	0	0	0	0	4	4	0	0	0	0	0	0	2	87	0	188	30
Darlington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	0	60	0
Dillon	2	2	0	0	0	0	2	2	0	0	0	0	0	0	12	12	0	34	4
Dorchester	4	4	0	0	0	0	12	11	0	0	0	0	0	0	7	38	0	122	16
Edgefield	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	19	0	7	0
Fairfield	1	1	0	0	0	0	0	0	0	0	0	0	0	0	13	8	0	27	1
Florence	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	99	1
Georgetown	4	3	0	0	0	0	2	1	0	0	0	0	0	0	9	12	0	57	6
Greenville	3	3	0	0	0	0	2	2	0	0	0	0	0	0	2	14	0	45	5
Greenwood	0	0	0	0	0	0	1	1	0	0	0	0	0	0	47	8	0	64	1
Hampton	3	3	0	0	0	0	1	1	0	0	0	0	0	0	8	41	0	70	4
Horry	14	14	0	0	0	0	10	10	0	0	0	0	0	0	30	67	0	101	24
Jasper	4	3	0	0	0	0	11	10	0	0	0	0	0	0	8	35	0	232	15
Kershaw	13	13	0	0	0	0	1	1	0	0	0	0	0	0	27	15	0	71	4
Lancaster	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	2
Laurens	4	4	0	0	0	0	0	0	0	0	0	0	0	0	14	10	0	32	4
Lee	0	0	0	0	1	1	0	0	0	0	0	0	0	0	5	1	0	62	1
Lexington	91	63	0	0	13	13	0	0	0	0	0	0	13	13	62	118	14	139	131
Manchester	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	2
Marion	0	0	0	0	0	0	1	1	0	0	0	0	0	0	11	6	0	20	1
Marlboro	2	2	0	0	0	0	5	5	0	0	0	0	0	0	19	16	0	30	7
McCormick	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	20	0
Newberry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	23	0	1	0
Oconee	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Orangeburg	19	19	0	0	0	0	2	2	0	0	0	0	0	0	17	45	0	150	23
Pickens	26	26	0	0	0	0	1	1	0	0	0	0	0	0	28	57	1	41	27
Richland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	57	0
Saluda	1	1	0	0	0	0	1	1	0	0	0	0	0	0	22	5	0	13	1
Sand Hills	0	0	0	0	0	0	0	0	0	0	46	46	0	0	0	0	0	0	46
Spartanburg	2	2	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	22	2
Sumter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	12	0	82	0
Union	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	7	0	6	4
Williamsbug	11	11	0	0	0	0	5	5	0	0	0	0	0	0	5	28	0	351	16
York	8	6	0	0	0	0	0	0	0	0	0	0	0	0	4	12	0	12	8
TOTAL	291	249	0	0	18	16	121	119	0	0	47	47	17	17	496	1043	16	3243	506

P = Prosecutions, C = Convictions, V = Violations



# TOTAL ALL LAND FIRES BY COUNTY AND MONTH, FISCAL YEAR 96

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		TOTAL	
	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES
ABBEVILLE	4	2.5							2	1.3	5	9.1	7	17.2	7	12.3	6	7.4	3	43.7	5	3.7			39	97.2
AIKEN	3	49.0	2	5.0	2	3.1	3	2.4	5	43.0	9	24.1	11	59.5	21	178.8	37	248.7	26	128.0	13	23.0	6	29.5	138	794.1
ALLENDALE			1	.1					1	.1			4	12.1	3	4.2	5	54.1	6	2.1	1	35.0			21	107.7
ANDERSON	3	10.5	1	1.0					3	4.2	2	4.0	1	2.0	13	85.5	10	62.0	5	34.0					38	203.2
BAMBERG									1	.2	9	10.2	7	13.8	15	33.8	6	13.9	4	1.5	3	1.4	45	74.8		
BARNWELL	1	.3					2	8.7	2	.3	2	.3	2	15.4	23	339.3	10	12.3	8	6.8	5	7.9	4	16.6	57	407.6
BEAUFORT							1	4.0	1	.3	5	19.4	15	48.7	43	288.9	20	145.3	13	83.5	6	59.5	3	17.5	107	667.1
BERKELEY	1	.1	3	4.7	1	.1			3	1.6	18	44.2	29	80.0	117	629.6	95	651.8	75	609.2	7	108.1	18	69.6	367	2199.0
CALHOUN							1	.5			7	13.6	4	7.0	8	19.9	12	363.8	5	7.3	9	49.4	5	5.0	51	466.5
CHARLESTON, L.									1	.1			3	14.0	13	135.5	18	69.4	8	52.2	2	1.8	2	4.0	47	277.0
CHARLESTON, U.	1	.5	3	77.0	1	.1	1	.5	1	2.0			5	43.5	11	146.1	10	143.6	17	92.4	1	1.0	2	12.0	53	518.7
CHEROKEE	1	4.0	2	4.0			1	.5	2	7.0	3	10.0			7	22.2	14	50.5	17	55.6	1	2.0	3	2.0	51	157.8
CHESTER	9	4.4	1	.3	1	1.0	2	4.0	3	9.0	1	2.0			8	49.5	9	70.4	6	13.2			1	68.0	41	221.8
CHESTERFIELD			2	5.0	1	1.0	2	8.1	6	6.4	6	7.7	5	4.2	27	148.0	24	158.3	20	366.0	10	111.3	9	90.6	112	906.6
CLARENDON			1	.1					14	26.3	13	32.8	16	12.7	32	154.8	1	35.0	30	122.3	5	11.5	2	26.0	114	421.5
COLLETON	1	3.0	1	1.0	1	.1	3	.3	2	5.1	12	32.2	20	107.6	61	463.4	60	796.0	36	295.8	12	34.3	20	65.8	229	1804.6
DARLINGTON	1	8.0	3	1.1	1	3.0	4	3.4	4	11.0	11	35.1	5	31.1	30	175.2	13	51.7	14	43.2	10	16.6	4	4.6	100	384.0
DILLON			2	2.5					1	5.0	3	3.1	3	25.6	4	39.5	14	20.7	10	29.3	4	1.8	3	.7	44	128.2
DORCHESTER	1	10.0			1	.3	1	.5	1	2.0	2	3.0	7	9.3	43	517.7	32	350.6	36	265.7	5	27.2	9	79.1	138	1265.4
EDGEFIELD	3	12.6			2	2.0			4	19.0	1	20.0	3	13.0	12	117.9	7	12.4	7	14.7	1	3.0			40	214.6
FAIRFIELD	10	38.8	3	.8			15	4.3	5	2.4	2	2.1	18	18.5	9	7.0	9	9.3	2	16.0	7	6.6	7	6.6	80	105.8
FLORENCE	2	.2	10	12.3			1	1.0	4	27.0	4	12.5	42	311.5	30	245.1	16	30.4	9	46.0	2	1.2	120	687.2		
GEORGETOWN	1	2.0	1	1.0	1	.1	1	.1	1	5.0	4	12.2	21	106.2	17	211.1	24	391.0	10	26.4	4	7.7	85	762.8		
GREENVILLE	3	2.2					1	10.0	6	12.0	1	1.0	18	52.6	11	42.3	16	121.6	6	46.3			62	288.0		
GREENWOOD	8	1.7	9	3.1	2	.4			11	7.1	9	8.6	1	.2	17	19.0	15	90.1	10	10.3	4	4.5	1	1.0	87	146.0
HAMPTON	1	6.0	1	.1			1	1.0	3	8.7	11	5.6	7	32.2	32	214.5	22	173.6	15	29.3	6	20.5	10	52.7	109	544.2
HORRY	3	1.7	8	131.1					5	9.3	8	19.1	6	12.6	49	286.1	27	116.2	28	122.1	12	881.4	8	31.2	154	1610.8
JASPER			1	2.0					2	1.1	5	40.7	18	97.7	79	545.8	75	897.5	43	324.0	7	15.3	12	34.3	242	1958.4
KERSHAW			7	10.7	6	2.9	2	.6	4	3.3	9	40.3	1	.1	27	99.3	31	120.1	13	38.7	8	94.4	9	54.8	117	465.2
LANCASTER	1	1.4	2	2.0											11	81.5	8	34.5			3	5.0			25	124.4
LAURENS	8	24.5	1	5.0					2	1.5	6	14.3			21	62.7	6	13.0	5	15.5	2	4.5			51	141.0
LEE													5	9.8	27	661.3		16	74.5	5	4.6			53	750.2	
LEXINGTON	9	14.9	2	13.3	1	1.0	8	4.5	8	27.5	8	34.5	9	27.6	56	83.6	38	38.7	37	29.6	17	16.3	12	3.0	205	294.5
MARION													1	.2	9	22.9	6	33.7	4	19.0	2	.6			22	76.4
MARLBORO			3	3.1	2	.4			1	1.0	6	10.7	3	4.1	9	70.3	11	22.0	12	15.3	2	1.7			49	128.6
MCCORMICK	21	40.8	1	.1	2	.2	1	.2	2	.2	1	4.0	4	11.2	3	.9	6	21.5	7	4.5	5	1.3	53	84.9		
NEWBERRY			1	2.0					1	2.0	11	11.9	4	2.0	11	13.5	3	3.5	3	23.1	3	7.0	2	5.0	39	70.0
OCONEE									3	8.0	1	1.0			11	23.5	4	12.0	11	23.0	1	.5	2	2.5	33	70.5
ORANGEBURG	1	.1	1	4.0			3	10.0	6	14.9	23	51.2	7	17.1	69	388.4	39	171.1	22	151.7	11	15.9	15	18.8	197	843.2
PICKENS	3	4.1			1	.2			3	1.8	3	15.5	1	.5	22	41.7	23	253.6	15	181.2	2	4.5	2	.2	75	503.3
RICHLAND			4	8.5	1	.3			3	24.0	2	5.5	2	13.0	21	83.4	15	195.6	17	75.0	5	15.0	1	3.0	71	423.3
SALUDA	9	27.6			1	.1	1	.1			3	8.0	1	10.0	6	18.8	1	.1	1	10.0	3	4.1	3	.4	29	79.2
SPARTANBURG									4	23.0	1	8.0			18	70.0	10	75.0	10	111.1	7	14.5	2	2.0	52	303.6
SUMTER											2	6.0	3	17.0	30	239.0		22	173.2	7	42.5	8	46.5	72	524.2	
UNION	1	1.0			1	4.0			1	.5	3	8.0			9	45.5	6	13.0	2	20.0	1	.5	29	102.5		
WILLIAMSBURG									3	37.0	15	62.7	31	253.4	143	1607.3	96	1471.7	60	1056.6	12	78.5	2	1.5	362	4568.7
YORK			1	.2	1	1.0			1	7.0	2	3.1			12	29.5	13	57.0	4	34.0	2	6.0			36	137.8
TOTAL	110	271.9	78	301.1	30	21.3	55	64.7	115	321.1	247	662.1	261	1042.4	1282	8749.7	931	7636.2	772	5379.9	258	1895.1	202	766.6	4341	27112.1

# FOREST LAND FIRES BY COUNTY AND MONTH, FISCAL YEAR 96

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		TOTAL	
	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES
ABBEVILLE	4	2.5							2	1.3	3	1.3	4	16.4	6	6.7	3	6.0	2	43.2	3	2.6			27	80.0
AIKEN	2	9.0	2	3.5	2	3.1	1	2.0	3	4.5	6	15.7	8	42.5	18	93.4	30	178.1	22	114.5	13	23.0	6	29.5	113	518.8
ALLENDALE			1	.1									3	3.5	2	4.0	3	14.0	6	2.1	1	35.0			16	58.7
ANDERSON	3	9.5							2	1.5	1	3.0	1	2.0	11	16.5	10	50.7	5	17.0					33	100.2
BAMBERG													4	1.7	5	8.7	14	22.1	4	10.8	3	1.4	3	1.4	33	46.1
BARNWELL													2	5.3	14	250.7	5	6.6	5	2.5	5	6.3	4	16.5	35	287.9
BEAUFORT													7	18.1	24	162.0	15	131.0	11	79.5	5	55.5	2	17.0	64	463.1
BERKELEY	1	.1	3	4.7	1	.1			3	1.6	18	44.2	29	80.0	117	629.6	95	651.8	75	609.2	7	108.1	18	69.6	367	2199.0
CALHOUN							1	.5			3	4.5	3	2.2	5	6.7	10	313.7	3	5.2	9	49.4	4	4.8	38	387.0
CHARLESTON L.									1	.1			3	10.0	11	102.5	16	64.3	7	23.7	2	1.8	2	4.0	42	206.4
CHARLESTON U	1	.5	3	77.0	1	.1			1	2.0			5	43.5	11	146.1	10	143.6	17	92.4	1	1.0	2	12.0	52	518.2
CHEROKEE	1	4.0	2	4.0			1	.5	1	1.0	3	10.0			4	11.2	9	35.0	17	55.6	1	2.0	3	2.0	42	125.3
CHESTER	3	2.9					1	3.0	1	1.0					7	21.5	6	22.0	4	13.0			1	68.0	23	131.4
CHESTERFIELD			2	5.0	1	1.0	2	8.1	3	4.1	2	1.1	3		23	117.0	18	143.9	14	330.4	10	111.3	9	90.6	87	812.9
CLARENDON									2	15.0	3	6.1	5		25	119.1	1	35.0	23	97.4	5	11.5	2	6.0	66	294.9
COLLETON	1	3.0	1	1.0			1	.1	2	5.1	11	16.1	14	78.1	46	395.5	53	690.3	34	236.8	11	34.1	19	58.7	193	1518.8
DARLINGTON	1	1.0	3	1.1	1	1.0	4	3.4	3	6.5	10	19.1	5	31.1	28	118.4	12	42.1	14	43.2	10	16.6	3	4.4	94	287.9
DILLON			2	2.5					1	5.0	1	.1	3	2.6	4	8.8	12	17.7	9	20.3	3	1.3	3	.7	38	59.0
DORCHESTER					1	.3			1	2.0	2	3.0	5	9.1	40	482.6	23	213.1	33	234.7	5	27.2	8	64.1	118	1036.1
EDGEFIELD	2	9.1							3	18.0	1	20.0	3	13.0	10	55.9	5	11.4	5	13.1	1	3.0			30	143.5
FAIRFIELD	10	38.8	2	.7			11	3.6			3	.4	1	.1	14	14.1	7	4.8	8	8.7	2	16.0	6	5.5	64	92.7
FLORENCE	2	.2	9	12.2						3	7.0	2	4.0	39	217.2	29	189.1	15	26.0	9	46.0	2	1.2	110	502.9	
GEORGETOWN	1	2.0	1	1.0			1	.1		1	5.0	4	12.2	21	106.2	17	209.1	24	391.0	10	26.4	4	7.7	84	760.7	
GREENVILLE	1	.2					1	9.0			6	12.0	1	1.0	14	47.8	10	19.3	15	121.0	6	46.3			54	256.6
GREENWOOD	7	1.6	8	2.7	1	.2			2	3.2	5	3.4	1	.2	12	14.2	14	89.8	8	8.2	2	1.0	1	1.0	61	125.5
HAMPTON									1	.1	4	2.3	5	31.8	18	183.5	13	139.5	11	26.6	4	13.5	9	16.6	65	413.9
HORRY	3	1.7	8	131.1					5	9.3	5	9.8	6	12.6	46	276.2	27	108.7	27	104.0	12	879.4	7	15.2	146	1548.0
JASPER			1	2.0					1	1.0	3	38.7	14	71.5	70	479.4	72	863.0	39	302.1	6	15.2	12	33.2	218	1806.1
KERSHAW			4	3.5	3	2.5	1	.5	3	3.2	4	12.0			16	81.0	25	115.7	9	37.0	8	94.4	9	35.8	82	385.6
LANCASTER	1	1.4	2	2.0											10	67.3	7	32.5			3	5.0			23	108.2
LAURENS	8	16.5	1	5.0					1	1.0	3	1.8			8	33.0	4	9.0	5	15.5	1	4.0			31	85.8
LEE													4	7.0	21	632.1			14	63.0	3	4.0			42	706.1
LEXINGTON	9	14.9	2	13.3	1	1.0	7	2.5	8	27.5	8	34.5	9	27.6	52	69.5	35	35.1	34	27.8	17	16.3	12	3.0	194	273.0
MARION													1	.2	9	20.9	6	33.7	4	19.0	2	.6			22	74.4
MARLBORO			2	2.5	1	.2					3	6.5	1	1.0	6	58.6	7	13.0	7	9.1					27	90.9
MCCORMICK	17	40.0	1	.1			1	.2					1	3.0	3	7.0	3	.8	5	21.4	6	4.4	5	1.3	42	78.2
NEWBERRY			1	2.0											10	11.5	3	3.5	2	23.0	2	4.0	2	5.0	29	59.7
OCONEE									3	8.0	1	1.0			5	14.0	1	2.0	11	20.8	1	.5	1	2.0	23	48.3
ORANGEBURG	1	.1	1	4.0			2	1.1	2	4.1	10	27.8	5	8.1	60	267.6	36	137.4	21	147.7	9	10.8	10	13.3	157	622.0
PICKENS	3	4.1							2	.8	2	13.0			14	13.9	18	217.1	13	166.7	2	4.5	1	.1	55	420.2
RICHLAND			4	8.5	1	.3			2	7.0	1	.5	1	3.0	18	63.5	12	151.0	13	55.5	5	15.0	1	3.0	58	307.3
SALUDA	8	27.5					1	.1			2	4.0			5	17.6	1	.1			2	4.0			19	53.3
SPARTANBURG									2	15.0	1	8.0			10	38.0	9	35.0	10	85.1	4	6.5	1	1.0	37	188.6
SUMTER											2	4.0	2	4.0	27	181.9			20	161.7	7	42.5	6	31.5	64	425.6
UNION											1	3.0			5	38.5	1	5.0	1	4.0	1	15.0			9	65.5
WILLIAMSBURG									3	27.0	15	62.7	29	243.4	143	1606.3	96	1461.7	60	1056.6	12	78.5	2	1.5	360	4537.7
YORK			1	.2					1	7.0	1	.1			10	24.0	12	55.0	4	13.0	2	6.0			31	105.3
TOTAL	90	190.6	67	289.7	14	9.8	36	34.7	65	182.9	157	412.4	194	795.0	1077	7341.7	815	6723.3	690	4959.1	233	1850.9	180	627.2	3618	23417.3

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# TOTAL ALL LAND FIRES BY COUNTY AND CLASS, FISCAL YEAR 96

	CLASS A		CLASS B		CLASS C		CLASS D		CLASS E		CLASS F		CLASS G		TOTAL	
	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES
ABBEVILLE	12	1.6	25	42.4	2	53.2									39	97.2
AIKEN	16	2.3	102	285.8	20	506.0									138	794.1
ALLENDALE	8	1.1	10	30.6	3	76.0									21	107.7
ANDERSON			34	88.2	4	115.0									38	203.2
BAMBERG	14	1.9	31	72.9											45	74.8
BARNWELL	7	1.3	41	68.8	8	167.5	1	170.0							57	407.6
BEAUFORT	16	2.1	68	219.0	23	446.0									107	667.1
BERKELEY	55	6.4	247	585.6	65	1607.0									367	2199.0
CALHOUN	15	2.0	31	64.5	4	110.0	1	290.0							51	466.5
CHARLESTON, LOWER	7	.7	33	101.3	7	175.0									47	277.0
CHARLESTON, UPPER	7	.7	25	76.0	21	442.0									53	518.7
CHEROKEE	1	.2	46	111.6	4	46.0									51	157.8
CHESTER	10	1.1	27	69.7	4	151.0									41	221.8
CHESTERFIELD	31	4.4	68	179.2	11	333.0	2	390.0							112	906.6
CLARENDON	42	4.6	59	159.9	13	257.0									114	421.5
COLLETON	27	3.4	153	408.2	48	1243.0	1	150.0							229	1804.6
DARLINGTON	11	1.7	76	215.3	13	167.0									100	384.0
DILLON	7	1.0	34	53.2	3	74.0									44	128.2
DORCHESTER	10	1.3	93	250.1	32	629.0	3	385.0							138	1265.4
EDGEFIELD	5	.7	27	67.9	8	146.0									40	214.6
FAIRFIELD	46	6.0	31	47.8	3	52.0									80	105.8
FLORENCE	14	2.0	86	215.2	20	470.0									120	687.2
GEORGETOWN	19	2.4	59	141.4	5	100.0	1	160.0	1	359.0					85	762.8
GREENVILLE	8	1.3	45	83.7	9	203.0									62	288.0
GREENWOOD	28	4.1	58	81.9	1	60.0									87	146.0
HAMPTON	24	3.2	69	135.5	16	405.5									109	544.2
HORRY	17	2.7	116	335.1	19	323.0	1	106.0	1	844.0					154	1610.8
JASPER	35	4.4	160	414.0	44	1040.0	2	200.0	1	300.0					242	1958.4
KERSHAW	22	2.9	80	181.3	15	281.0									117	465.2
LANCASTER	1	.2	20	53.2	4	71.0									25	124.4
LAURENS	1	.2	47	104.8	3	36.0									51	141.0
LEE	3	.4	35	89.8	13	460.0	2	200.0							53	750.2
LEXINGTON	75	11.8	122	189.9	8	92.8									205	294.5
MARION	4	.5	17	47.9	1	28.0									22	76.4
MARLBORO	12	1.5	34	68.1	3	59.0									49	128.6
MCCORMICK	24	2.9	25	23.0	4	59.0									53	84.9
NEWBERRY	5	.9	33	48.1	1	21.0									39	70.0
OCONEE			32	60.5	1	10.0									33	70.5
ORANGEBURG	24	3.2	150	411.0	23	429.0									197	843.2
PICKENS	17	2.8	54	111.5	2	39.0	2	350.0							75	503.3
RICHLAND	1	.1	58	164.2	12	259.0									71	423.3
SALUDA	14	1.7	11	22.5	4	55.0									29	79.2
SPARTANBURG	1	.1	40	101.5	11	202.0									52	303.6
SUMTER	5	.7	46	166.5	21	357.0									72	524.2
UNION			27	62.5	2	40.0									29	102.5
WILLIAMSBURG	26	2.9	211	707.8	122	3408.0	3	450.0							362	4568.7
YORK	2	.3	32	94.5	2	43.0									36	137.8
TOTAL	729	97.7	2928	7313.4	662	15347.0	19	2851.0	3	1503.0					4341	27112.1

CLASS A <=.25; CLASS B .26-9.9; CLASS C 10-99; CLASS D 100-299; CLASS E 300-999; CLASS F 1000-4999; CLASS G > 5000



# FOREST LAND FIRES BY COUNTY AND CLASS, FISCAL YEAR 1996

	CLASS A		CLASS B		CLASS C		CLASS D		CLASS E		CLASS F		CLASS G		TOTAL	
	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES
ABBEVILLE	6	.8	19	26.0	2	53.2									27	80.0
AIKEN	13	1.7	87	233.1	13	284.0									113	518.8
ALLENDALE	5	.7	10	23.0	1	35.0									16	58.7
ANDERSON			32	60.2	1	40.0									33	100.2
BAMBERG	8	1.2	25	44.9											33	46.1
BARNWELL	9	1.5	21	39.0	4	97.4	1	150.0							35	287.9
BEAUFORT	4	.4	46	156.7	14	306.0									64	463.1
BERKELEY	55	6.4	247	585.6	65	1607.0									367	2199.0
CALHOUN	11	1.5	25	55.5	1	40.0	1	290.0							38	387.0
CHARLESTON L	6	.6	30	78.8	6	127.0									42	206.4
CHARLESTON U	7	.7	24	75.5	21	442.0									52	518.2
CHEROKEE	1	.2	38	91.1	3	34.0									42	125.3
CHESTER			22	63.4	1	68.0									23	131.4
CHESTERFIELD	21	2.8	53	134.1	11	311.0	2	365.0							87	812.9
CLARENDON	12	1.3	47	138.6	7	155.0									66	294.9
COLLETON	14	1.7	141	385.1	37	1002.0	1	130.0							193	1518.8
DARLINGTON	8	1.1	78	199.8	8	87.0									94	287.9
DILLON	7	1.0	30	48.0	1	10.0									38	59.0
DORCHESTER	7	1.0	87	226.1	21	424.0	3	385.0							118	1036.1
EDGEFIELD	4	.6	22	68.9	4	74.0									30	143.5
FAIRFIELD	37	4.7	24	36.0	3	52.0									64	92.7
FLORENCE	15	2.1	80	188.8	15	312.0									110	502.9
GEORGETOWN	18	2.3	59	139.4	5	100.0	1	160.0	1	359.0					84	760.7
GREENVILLE	5	.9	43	88.7	6	167.0									54	256.6
GREENWOOD	18	2.8	42	62.7	1	60.0									61	125.5
HAMPTON	7	.9	45	87.0	13	326.0									65	413.9
HORRY	15	2.5	112	305.5	17	290.0	1	106.0	1	844.0					146	1548.0
JASPER	27	3.5	145	360.9	43	941.7	2	200.0	1	300.0					218	1806.1
KERSHAW	8	1.1	62	152.5	12	232.0									82	385.6
LANCASTER			20	57.2	3	51.0									23	108.2
LAURENS			30	73.8	1	12.0									31	85.8
LEE	1	.1	29	92.0	10	414.0	2	200.0							42	706.1
LEXINGTON	70	10.8	116	169.4	8	92.8									194	273.0
MARION	4	.5	17	45.9	1	28.0									22	74.4
MARLBORO	6	.8	18	33.1	3	57.0									27	90.9
MCCORMICK	15	1.9	24	27.3	3	49.0									42	78.2
NEWBERRY	1	.2	27	38.5	1	21.0									29	59.7
OCONEE			22	38.3	1	10.0									23	48.3
ORANGEBURG	19	2.6	123	331.4	15	288.0									157	622.0
PICKENS	11	1.7	41	56.5	1	12.0	2	350.0							55	420.2
RICHLAND			51	122.3	7	185.0									58	307.3
SALUDA	7	.9	10	18.4	2	34.0									19	53.3
SPARTANBURG	1	.1	31	93.5	5	95.0									37	188.6
SUMTER	4	.6	45	152.0	15	273.0									64	425.6
UNION			7	25.5	2	40.0									9	65.5
WILLIAMSBURG	26	2.9	209	696.8	122	3388.0	3	450.0							360	4537.7
YORK	2	.3	28	90.0	1	15.0									31	105.3
TOTAL	515	69.4	2544	6316.8	537	12742.1	19	2786.0	3	1503.0					3618	23417.3

CLASS A <=.25; CLASS B .26-9.9; CLASS C 10-99; CLASS D 100-299; CLASS E 300-999; CLASS F 1000-4999; CLASS G > 5000

# TOTAL ALL LAND FIRES BY COUNTY AND CAUSE, FISCAL YEAR 96

COUNTY	LIGHTNING		CAMPFIRE		SMOKING		DEBRIS BURNING		INCENDIARY		EQUIP.USE		RAILROAD		CHILDREN		MISC.		T O T A L	
	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES	NO.	ACRES
ABBEVILLE	3	2.2	1	2.0	7	4.2	10	59.6	8	21.7	3	1.1	1	.1	2	2.2	4	4.1	39	97.2
AIKEN	6	54.3	1	25.0	1	.2	71	431.6	24	155.9	7	16.2			9	6.9	19	104.0	138	794.1
ALLENDALE	1	.1			1	.1	12	85.1	6	15.4	1	7.0							21	107.7
ANDERSON	1	8.0			3	51.0	16	53.0	1	40.0	5	9.2			6	25.0	6	17.0	38	203.2
BAMBERG					3	10.1	11	22.3	19	28.2	8	4.2			2	3.8	2	6.2	45	74.8
BARNWELL	2	17.0			4	1.8	21	76.8	16	121.8	7	174.9			5	3.7	2	11.6	57	407.6
BEAUFORT	1	15.0			1	.2	37	275.0	54	327.5	2	11.0	1	2.0	6	21.3	5	15.1	107	667.1
BERKELEY	2	50.2	1	3.0	1	.1	101	537.7	243	1593.6	8	8.2			7	3.9	4	2.3	367	2199.0
CALHOUN	6	51.4			2	1.2	24	41.6	9	74.1	3	1.4					7	296.8	51	466.5
CHARLESTON, L.							24	198.8	18	65.1	1	6.0			1	.1	3	7.0	47	277.0
CHARLESTON, U.	1	35.0					15	88.7	31	348.0	3	24.5					3	22.5	53	518.7
CHEROKEE			2	8.0	4	8.0	17	47.1	18	61.7	2	1.5	2	1.0	4	17.5	2	13.0	51	157.8
CHESTER							17	119.0	14	81.8	7	18.3			3	2.7			41	221.8
CHESTERFIELD	6	61.1	1	.1	11	39.8	56	499.6	27	140.9	1	3.0	1	100.0			9	62.1	112	906.6
CLARENDON					2	2.1	28	81.5	71	321.7	12	6.2			1	10.0			114	421.5
COLLETON	1	1.0	1	1.0	1	1.0	107	758.0	105	986.8	9	45.7			3	10.6	2	.5	229	1804.6
DARLINGTON	1	2.0			2	8.0	40	143.3	42	199.3	5	9.2			3	9.0	7	13.2	100	384.0
DILLON	1	.2			4	3.3	19	68.2	12	25.3					4	3.2	4	28.0	44	128.2
DORCHESTER	1	10.0	2	5.0			40	317.7	86	906.8	2	15.5			6	8.4	1	2.0	138	1265.4
EDGEFIELD	2	3.1			2	3.4	21	103.3	6	24.7	2	13.0			1	3.0	6	64.1	40	214.6
FAIRFIELD					4	4.3	45	50.9	13	35.0	11	11.9			2	.4	5	3.3	80	105.8
FLORENCE	3	4.2			6	49.2	43	230.1	62	374.3					3	28.0	3	1.4	120	687.2
GEORGETOWN					2	.4	32	79.8	44	650.0	2	7.1			4	21.5	1	4.0	85	762.8
GREENVILLE	2	41.0			2	17.0	31	142.1	15	65.4	3	8.0			2	3.0	7	11.5	62	288.0
GREENWOOD	1	2.0			5	3.4	32	92.0	7	1.7			2	4.5	11	10.1	29	32.3	87	146.0
HAMPTON	2	11.0	1	.3			43	208.3	49	303.7	10	17.2			3	3.6	1	.1	109	544.2
HORRY	3	118.1			1	1.5	60	278.6	72	1182.4	3	.6			11	22.4	4	7.2	154	1610.8
JASPER	3	7.2			3	24.0	79	414.0	141	1485.5	5	10.1			9	13.6	2	4.0	242	1958.4
KERSHAW	8	8.5	1	25.0	4	3.3	54	214.4	26	131.4	7	13.8	1	2.0	8	42.5	8	24.3	117	465.2
LANCASTER	1	1.0			2	3.0	15	77.7	1	2.0	1	.3			3	13.4	2	27.0	25	124.4
LAURENS	2	8.0					27	60.0	5	22.3	4	21.0	8	12.0			5	17.7	51	141.0
LEE	1	3.0					27	368.1	19	276.4							6	102.7	53	750.2
LEXINGTON	5	18.2	1	15.0	9	9.9	88	140.8	33	38.4	11	19.5			41	22.5	17	30.2	205	294.5
MARION	1	.1					10	23.5	11	52.8									22	76.4
MARLBORO					5	11.7	19	39.2	21	76.3	2	.3	2	1.1					49	128.6
MCCORMICK	5	25.1	1	.1	5	13.0	14	13.7	6	24.4	3	2.4	12	2.7	1	.3	6	3.2	53	84.9
NEWBERRY					3	5.5	18	22.4	1	21.0	12	15.5			1	2.0	4	3.6	39	70.0
OCONEE					9	22.0	9	22.0	1	2.0	1	.5			1	2.0	21	44.0	33	70.5
ORANGEBURG	2	.2			6	17.3	87	360.2	72	362.4	18	22.0			2	2.5	10	78.6	197	843.2
PICKENS	1	.1			9	8.9	46	249.3	4	206.6					4	10.8	11	27.6	75	503.3
RICHLAND	1	6.0			3	16.0	15	54.0	46	316.0	4	22.3			1	7.0	1	2.0	71	423.3
SALUDA					3	3.2	14	32.5	5	15.0	2	6.0			3	2.3	2	20.2	29	79.2
SPARTANBURG					4	24.0	25	107.0	8	85.6	6	38.0			5	39.0	4	10.0	52	303.6
SUMTER	2	23.0			2	13.0	42	227.2	19	220.5					4	30.5	3	10.0	72	524.2
UNION			1	15.0	1	2.0	16	29.0	5	37.5	2	5.0	1	5.0	1	4.0	2	5.0	29	102.5
WILLIAMSBURG	1	2.0					57	706.7	295	3815.9	7	38.6					2	5.5	362	4568.7
YORK					1	6.0	18	43.5	7	22.1	1	28.0	2	10.0	5	21.2	2	7.0	36	137.8
TOTAL	79	589.3	14	99.5	129	371.1	1653	8294.9	1798	15366.9	203	664.2	33	140.4	188	433.9	244	1151.9	4341	27112.1

# FOREST LAND FIRES BY COUNTY AND CAUSE, FISCAL YEAR 96

COUNTY	LIGHTNING NO.	ACRES	CAMPFIRE NO.	ACRES	SMOKING NO.	ACRES	BURNING NO.	ACRES	INCENDIARY NO.	ACRES	U S E NO.	ACRES	RAILROAD NO.	ACRES	CHILDREN NO.	ACRES	MISC. NO.	ACRES	TOTAL NO.	ACRES
ABBEVILLE	3	2.2	1	1.8	1	3.0	9	48.2	7	21.4	3	1.1			2	.3	1	2.0	27	80.0
AIKEN	5	14.3	1	25.0	1	.2	57	268.1	21	102.4	4	5.5			8	6.5	16	96.8	113	518.8
ALLENDALE	1	.1					10	53.1	4	5.1	1	.4							16	58.7
ANDERSON	1	7.0			3	3.5	14	27.7	1	4.0	1	4.0			4	9.0	6	9.0	33	100.2
BAMBERG					3	8.4	8	15.3	15	16.3	4	3.8			2	1.8	1	.2	33	46.1
BARNWELL	2	17.0			2	2.6	13	25.6	11	83.9	3	151.9			2	1.4	2	11.6	35	287.9
BEAUFORT	1	15.0			1	.1	26	236.8	28	185.1	1	1.0	1	2.0	2	18.0	4	5.1	64	463.1
BERKELEY	2	50.2	1	3.0	1	.1	101	537.7	243	1593.6	8	8.2			7	3.9	4	2.3	367	2199.0
CALHOUN	6	51.4			2	.4	14	17.6	9	21.1	2	1.2					5	2.3	38	387.0
CHARLESTON, L.							22	152.7	16	50.1	1	2.0					3	1.6	42	206.4
CHARLESTON, U.	1	35.0					15	88.7	31	348.0	1	24.9					2	22.0	52	518.2
CHEROKEE			2	8.0	3	7.0	10	21.6	17	55.7	2	9.2	2	1.0	4	17.5	2	13.0	42	125.3
CHESTER							13	98.9	5	13.0	3	17.0			2	2.5			23	131.4
CHESTERFIELD	5	60.1	1	.1	7	35.6	43	437.8	22	135.2	1	3.0	1	100.0			7	41.1	87	812.9
CLARENDON					1	.1	22	55.9	42	236.9	1	2.0							66	294.9
COLLETON	1	1.0	1	1.0			86	615.7	95	855.3	1	35.1			3	10.6	1	.1	193	1518.8
DARLINGTON	1	2.0			2	6.0	39	84.5	38	165.7	5	9.2			3	9.0	1	11.5	94	287.9
DILLON	1	.2			2	3.1	16	29.6	73	750.2					3	9.0	4	4.4	38	59.0
DORCHESTER			2	5.0			36	260.6	33	750.2	1	10.0			5	8.3	1	2.0	118	1036.1
EDGEFIELD	2	3.1			2	3.4	16	59.3	5	23.2	1	12.0			1	3.0	3	39.5	30	143.5
FAIRFIELD					2	3.0	38	45.9	13	34.9	7	8.3			2	.4	2	.2	64	92.7
FLORENCE	3	4.2			2	46.2	38	151.8	59	288.3					2	11.0	3	1.4	110	502.9
GEORGETOWN					2	.4	32	77.8	43	649.9	2	7.1			4	21.5	1	4.0	84	760.7
GREENVILLE	2	41.0			3	17.0	28	131.3	11	46.3	3	8.0			1	2.0	7	11.0	54	256.6
GREENWOOD					3	2.3	25	82.4	1	1.2			2	4.5	9	6.9	16	25.2	61	125.5
HAMPTON	2	11.0					29	135.5	29	264.6	4	1.3			1	1.5			65	413.9
HORRY	3	118.1			1	1.0	56	239.2	71	1165.9	2	9.5			10	18.1	3	5.2	146	1548.0
JASPER	3	7.2			3	24.0	69	364.9	130	1385.9	3	9.5			8	11.6	2	3.0	218	1806.1
KERSHAW	6	6.3	1	25.0	2	3.0	36	155.5	21	123.2	4	11.6	1	2.0	9	35.0		24.0	82	385.6
LANCASTER	1	1.0			1	1.0	14	63.5	4	2.0	3	15.5			3	13.4		27.0	23	108.2
LAURENS	2	8.0					20	37.0	1	1.3								6.0	31	85.8
LEE	1	3.0					25	356.5	15	246.6							1	100.0	42	706.1
LEXINGTON	5	18.2	1	15.0	9	9.9	82	129.8	33	38.4	9	9.5			39	22.2	16	30.0	194	273.0
MARION	1	.1					10	21.5	11	52.8									22	74.4
MARLBORO					2	1.5	9	20.3	15	69.0			1	.1	1	.3	3	2.7	27	90.9
MCCORMICK	4	25.0	1	.1	3	19.0	12	9.4	6	23.4	2	2.3	1	.1	1	2.0	3	2.0	42	78.4
NEWBERRY					3	9.5	15	20.0	1	21.0	7	9.2	8	2.0	1	2.0	15	36.3	29	59.7
OCONEE					5	7.5	5	7.5	1	2.0	1	.5			1	2.0	15	36.3	23	48.3
ORANGEBURG	2	.2			4	9.3	75	297.6	62	234.8	4	11.4			2	2.5	8	66.2	157	622.0
PICKENS	1	.1			7	6.9	33	189.5	3	202.5					2	3.8	9	17.4	55	420.2
RICHLAND	1	6.0			2	3.5	12	43.5	39	241.5									58	307.3
SALUDA					2	7.0	7	20.7	5	5.0	1	3.0			3	2.3	2	20.2	19	53.2
SPARTANBURG					1	15.0	19	67.0	4	5.6	3	27.0			3	18.0	3	9.0	37	188.6
SUMTER	1	20.0			2	13.0	36	165.6	18	189.5					4	29.5	3	8.0	64	425.6
UNION			1	15.0			3	9.5	3	35.0	1	2.0					1	4.0	9	65.5
WILLIAMSBURG	1	2.0					57	706.7	293	3784.9	1	38.6						5.5	360	4537.7
YORK					1	6.0	14	35.0	6	19.1	1	7.0	2	10.0	5	21.2	2	7.0	31	105.3
TOTAL	71	530.0	13	99.0	93	255.0	1349	6717.6	1597	13922.3	124	478.8	18	121.6	154	320.2	179	972.8	3618	23417.3



## PROPERTY LOSS REPORT, FISCAL YEAR 90

COUNTY	NBR.	HOMES EST. VALUE	NBR.	OTHER STRUCT. EST. VALUE	NBR.	EQUIPMENT EST. VALUE	NBR.	VEHICLES EST. VALUE	NBR.	OTHER EST. VALUE
ABBEVILLE	0	0	0	0	0	0	3	500	6	10
AIKEN	2	27,000	3	1,500	5	101,700	1	2,500	45	3,710
ALLENDALE	0	0	0	0	0	0	0	0	0	0
ANDERSON	0	0	0	0	0	0	0	0	0	0
BAMBERG	0	0	2	150	0	0	0	0	0	0
BARNWELL	0	0	0	0	1	10,000	0	0	1	15,000
BEAUFORT	0	0	3	21,500	5	10,000	1	500	1	275
BERKELEY	1	1,000	7	80,900	1	30,000	2	6,000	1	100
CALHOUN	2	44,000	1	400	0	0	1	2,000	3	75
CHARLE, LOWER	1	1,000	0	0	0	0	0	0	140	2,800
CHARLE, UPPER	0	0	0	0	0	0	0	0	0	0
CHEROKEE	0	0	0	0	0	0	0	0	0	0
CHESTER	0	0	2	3,500	0	0	0	0	0	0
CHESTERFIELD	2	27,000	2	12,000	1	200,000	1	100	7	6,055
CLARENDON	0	0	0	0	0	0	0	0	0	0
COLLETON	0	0	4	7,000	1	1,500	0	0	30	300
DARLINGTON	1	500	0	0	0	0	0	0	1	500
DILLON	1	5,000	0	0	0	0	0	0	0	0
DORCHESTER	3	16,200	1	400	0	0	0	0	0	0
EDGEFIELD	0	0	0	0	0	0	0	0	83	1,660
FAIRFIELD	1	1,500	2	2,500	1	2,000	0	0	0	0
FLORENCE	0	0	2	3,000	0	0	17	0	0	0
GEORGETOWN	0	0	0	0	0	0	0	0	0	0
GREENVILLE	0	0	0	0	0	0	0	0	0	0
GREENWOOD	0	0	2	1,000	1	0	2	0	1	2,000
HAMPTON	1	30,000	0	0	3	80,000	0	0	92	151,915
HORRY	0	0	1	1,000	1	3,000	2	7,000	2	300
JASPER	1	100	2	20,200	0	0	10	60,500	4	400
KERSHAW	0	0	1	0	0	0	1	2,000	0	0
LANCASTER	0	0	2	110,000	1	20,000	2	11,500	0	0
LAURENS	1	2,400	1	2,000	0	0	0	0	0	0
LEE	2	10,000	2	500	0	0	0	0	0	0
LEXINGTON	5	98,100	11	12,900	5	42,400	7	10,300	30	10,225
MCCORMICK	0	0	2	1,100	1	3,000	0	0	0	0
MARION	0	0	0	0	0	0	0	0	0	0
MARLBORO	0	0	3	2,050	1	80,000	0	0	0	0
NEWBERRY	0	0	2	3,500	0	0	0	0	0	0
OCONEE	1	10,000	2	50,050	0	0	0	0	1	75
ORANGEBURG	1	1,000	8	2,600	3	7,500	2	2,000	14	8,800
PICKENS	0	0	1	2,000	0	0	0	0	1	25,000
RICHLAND	0	0	0	0	1	300	1	2,000	50	1,000
SALUDA	0	0	0	0	0	0	0	0	0	0
SPARTANBURG	0	0	0	0	0	0	1	3,000	0	0
SUMTER	0	0	1	500	0	0	2	15,000	0	0
UNION	0	0	0	0	0	0	0	0	0	0
WILLIAMSBURG	0	0	1	0	0	0	0	0	2	0
YORK	0	0	1	0	0	0	1	7,000	1	0
STATE TOTAL	26	274,800	72	342,250	32	591,400	57	131,900	516	230,200

## INSECT AND DISEASE

The Insect and Disease Section, in cooperation with the State Division of Plant Industry and the US. Forest Service, maintains a program to detect, evaluate, and suppress forest pests. Through cooperative agreements, these agencies make their technical assistance and advice available to the Forestry Commission.

The current forest pest detection and reporting system involves the reporting by field foresters of forest pests that are causing abnormal losses, require control action, or which may present new problems. Aerial surveys are made periodically for specific pests to determine occurrence and the need for suppression action.

### Major Insect Problems

#### *Southern Pine Beetle:*

The southern pine beetle caused record losses of pine timber in South Carolina during the fiscal year. Pines worth over \$126 million in green stumpage were killed during this period. This included 564,147 cords and 386,157,496 board feet of timber. The outbreak, which had begun as a minor problem in the upstate exploded to include all or parts of 22 counties. These counties included Abbeville, Anderson, Beaufort, Berkeley, Charleston, Cherokee, Chester, Colleton, Edgefield, Fairfield, Greenville, Greenwood, Hampton, Jasper, Laurens, McCormick, Newberry, Oconee, Pickens, Saluda, Spartanburg and Union.

Due to the magnitude of the outbreak, the State Forester declared a forest disaster and the Governor's Salvage Council was resurrected. Many news releases and articles were published and all major television networks did stories on the beetle in South Carolina.

Salvage of beetle wood was good in the coastal plains but very poor in the piedmont. Statewide, approximately 15% of the damaged wood was salvaged for timber or pulp.

Pheromone trapping during the spring of 1996 indicated a declining beetle population in most of the state. Actually, the beetle population nearly collapsed in April. Late freezes and high predator numbers combined with other factors to limit the beetle population. By summer, only Oconee County had enough new beetle spots to warrant a 100% survey.

Funding for beetle suppression came from the US. Forest Service and was sufficient to perform surveys and provide technical assistance. The Governor recommended that \$260,000 in state funds be approved for a cut and leave suppression program. These funds had not been obtained by the end of the fiscal year.

## Major Disease Problems

### *Oak Wilt:*

Oak wilt disease has been identified in Barnwell, Chesterfield, Kershaw, Lancaster, Lee, and Richland counties. Except for last year's discovery in Barnwell County the disease appears to be static and causing losses only to low value oaks. Since there is potential for loss of valuable trees, including urban trees, periodic surveys are made to evaluate the spread.

### *Dutch Elm Disease:*

Dutch Elm disease has been confirmed in Aiken, Anderson, Cherokee, Chester, Chesterfield, Edgefield, Fairfield, Greenville, Greenwood, Kershaw, Lancaster, Laurens, Lexington, Marlboro, Newberry, Oconee, Pickens, Richland, Saluda, Spartanburg, and York counties. It is expected to gradually spread through the state because the primary agent of spread, the smaller European elm bark beetle, occurs statewide.

### *Mycorrhizal Inoculation:*

A project was continued at Creech Seed Orchard this year to inoculate containerized longleaf seedlings with the mycorrhizal fungus *Pisolithus tinctorius* (P.t.). The entire crop of nearly 2 million longleaf seedlings were inoculated with mycorrhizae. Approximately 80,000 seedlings were inoculated by I&D with sprayed spores. The remainder were inoculated with spores incorporated into the media.

### *Dogwood Anthracnose:*

In 1988 a new anthracnose disease of dogwood was noted for the first time in South Carolina. This disease is caused by the fungus *Discula destructiva*. Symptoms include foliage blighting, canker formation and progressive deterioration. Infected trees usually are killed by the fungus in 2-3 years. At this time infected trees have been found in Anderson, Greenville, Laurens, Oconee, Pickens, and Spartanburg counties. As part of a southwide effort, the Forestry Commission has established 19 permanent plots in the counties known to harbor infections of the fungus. The dogwoods in those plots will be monitored periodically to determine the rate of spread of this potentially devastating disease.

### *Miscellaneous Insect and Disease Check*

Commission foresters made approximately 2,761 field checks of insect and disease problems and made recommendations for prevention and control. Other inquiries were handled by telephone, mail, and personal contact.

### *Insect and Disease Laboratory*

During Fiscal Year 95-96 the Insect and Disease Laboratory processed 76 samples. These were submitted for analysis by Commission employees and private individuals. Recommendations for control of various pests identified were given where needed.



## **ENVIRONMENTAL MANAGEMENT**

The Environmental Management Section is responsible for the development and implementation of South Carolina Forestry Commission programs which are related to the environmental protection of forests and associated natural resources. Issues that are addressed include the protection of water quality, site productivity, and unique ecosystems.

### **BMP Manual**

South Carolina's Best Management Practices for Forestry was originally published in March of 1994. During the 95-96 fiscal year, 7600 additional BMP manuals were printed. Copies are distributed to loggers, landowners, and foresters.

### **BMP Implementation Monitoring**

A baseline survey of compliance with site preparation BMPs was initiated during the 95-96 fiscal year. Three previous surveys have documented an improvement in BMP compliance for harvesting BMPs, from 84% in 1991 to 90% in 1994. Up until this baseline survey, compliance with site preparation BMPs had not been measured. Overall compliance with site preparation BMPs was 96.4%. Study results will be published in fiscal year 96-97.

### **BMP Education/Training Program**

BMP education and training are key aspects of the Forestry Commission's non-regulatory BMP program. Thirty-five BMP meetings were held throughout the state for forest landowner groups, government agencies, and professional organizations. A total of 1,308 people attended. Included in the meetings were eighteen Timber Operations Professional (TOP) workshops, which reached 494 loggers and foresters. A presentation on the Forestry Commission's BMP program was made to the Society of American Foresters' National Convention in Portland, Maine.

### **Courtesy Exam Program**

The Forestry Commission created and filled two new BMP forester positions in the Piedmont and Pee Dee Regions. By February 1996, a BMP forester was located in each of the Forestry Commissions three regions. These foresters offered courtesy exams to landowners, consulting foresters and timber buyers in order to recommend appropriate BMPs to follow while conducting forestry activities. The BMP foresters completed 137 courtesy exams between the time the positions were created and the end of the fiscal year.

## EQUIPMENT

The Equipment Section is responsible for development and implementation of statewide programs concerning use, design and maintenance of specialized forest fire control equipment.

This section is responsible for providing technical assistance and advice to district repair shops, developing specifications for fire suppression equipment and motor vehicle fleet, and arranging training for all field mechanics.

All regular and specialized fire control equipment is modified and processed for field use at the Commission's Central Repair Shop. The Central Repair Shop personnel make numerous repairs to Forestry Commission vehicles and equipment and manufactured fire control equipment. The following list is some of the major accomplishments performed by the Central Repair Shop

- Serviced and maintained vehicles assigned to Columbia Office/Shop Complex
  - Provided maintenance assistance to the Region Repair Shops
  - Processed new motor vehicle equipment
  - Rebuilt (4) truck engines for field use
  - Painted (3) portable buildings for new repeater sites.
  - Rebuilt (2) engine heads and manifolds for field shops
  - Various truck and equipment parts from cannibalized equipment were issued to field shops
  - Reworked (7) wheel fire plows
- Regions, State Forests, Taylor Nursery, Neiderhof Seed Orchard and Central Repair Shops maintenance facilities were certified by the Division of Motor Vehicle Management.

### Equipment Purchased

- Fifteen (15) Dodge pickups for Rangers
- Forty nine (49) John Deere 450G crawler tractors
- Seven (7) Dresser TD-8HDD crawler tractors
- One (1) International truck tractor (Jasper Co.)
- Forty four (44) International trucks (Transports)
- Eleven (11) Ford trucks-(Transports)
- Six (6) Dodge Vans 3/4 ton for radio technicians
- One (1) multi purpose V-Blade-Georgetown Co.
- Three (3) reverse C-Frames for lift plows.
- Fifteen (15) RM 1000 lift plows (Fesco)
- Twenty-four (24) wheel plows (Fesco)
- Three (3) Chevrolet pickups (1 1/2 ton) with service bodies
- Ten (10) federal excess vehicles for Pee Dee Region, Coastal Region, Piedmont Region and Central Warehouse

The Central Shop, along with field personnel, initiated purchasing, fabricating, and organizing the building of truck bodies for the new equipment.

The Central Shop prepared and organized the fire suppression equipment for the three (3) auctions held at its headquarters. The Forestry Commission netted \$587,336.50 that was used to purchase like equipment.

## Training for Mechanics

- Eleven (11) mechanics attended a 3 day brake class
- Nine (9) mechanics attended a 1 day brake class
- Nineteen (19) mechanics attended a 1 day class on engine maintenance for the 1996 International Transports.
- Three (3) mechanics attended a 3 day training class on air brakes, power train, and air conditioning for International trucks.
- Sixteen (16) mechanics attended a 1 day class on the JD 450G crawlers which included testing, diagnosis and safety procedures.
- Three (3) mechanics attended a 4 day session on Dodge trucks which included fuel injection and power train.
- All operators of new equipment attended a 1-day session at the Regions on the operation of the JD 450G crawler tractors.



## ECONOMIC AND RURAL DEVELOPMENT

The South Carolina Forestry Commission maintains a strong program of forest product business development and recruiting as well as rural development assistance. The goal is to maximize the contributions the forest resource makes to the state.

Activities for the year include:

47 active business recruiting leads maintained and worked on, on an as-needed basis. 27 leads were initiated this year.

39 requests for business development assistance processed.

12 leads for forest products export trade assistance processed.

165 leads generated for forest product trade.

74 requests for miscellaneous assistance handled.

41 requests for forest product directories.

5 forest product and related companies established in South Carolina this year had assistance from the South Carolina Forestry Commission.

South Carolina business promotion activities were carried out at the Woodworking and Furniture Supply Fair in Anaheim, CA, National Wood Window and Door Association, and Wood Moulding and Millwork Producers Association.

South Carolina Forestry Commission sponsored industry training on drying southern yellow pine, and participated in training for pallet recycling, the Defense Diversification Initiative, and the Governor's Rural Summit.

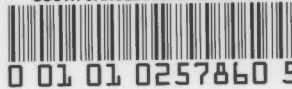
## COMMUNICATIONS

The Communications Section is responsible for planning, development, and implementation of the statewide radio and telecommunications network. The Section maintains 641 mobile radios, 152 portable radios, 38 base stations, and 22 repeater stations. There are 375 alphanumeric pagers in service statewide.

As a result of the Wildfire Hazard Mitigation grant provided by FEMA, regional forest fire dispatching began operations at Walterboro, Florence, and Newberry on April 16, 1996. The system reduced the number of required dispatchers from 60 to 28. Any one of the nine work stations has the capability to control all dispatching operations for any part of the state. Regional dispatching further enhanced the Commission's statewide Communications system by providing for more positive station-to-station links.

The Wildfire Hazard Mitigation Project also provided an interactive voice recording system used to issue fire prevention information and receive notifications for residential burning. The system was placed in operation on 15 April, 1996. Over 35,000 calls were processed during the first thirty days of operation. Annually the system is expected to process more than 300,000 requests for residential burning.





# South Carolina Forestry Commission

## Organizational Chart

